

Mathematics Student Workbook

Book 8

40x Number Knowledge Worksheets 40x Curriculum Strand Worksheets







This resource covers Level 5 achievement objectives as outlined in the Mathematics in the New Zealand Curriculum

for the strands ...

Number & Algebra, Measurement & Geometry and Statistics and supports the Numeracy Professional Development Project - Stages 7 to 8

Name: _____ Class: _____ Author: A. W. Stark



This Student Workbook has been sold on the understanding that it is for the exclusive use of the purchaser. No part of this Student Workbook can be reproduced or photocopied by any means, or stored on a retrieval system or transmitted in any form or by any means without the written permission of the author.



Note from the author:



About ...

Help Me at Home Student Workbooks

This resource is one of a series of **8** resources written to support the *Numeracy Project* currently being implemented within many New Zealand schools and covers the achievement objectives as outlined in the *Mathematics in the New Zealand Curriculum* (2007 revised edition) document for the teaching areas or strands of ...

Number & Algebra, Measurement & Geometry and Statistics.

Note: The Number Knowledge section covers many of the Number & Algebra Achievement Objectives.

Background Information:

The **Numeracy Professional Development Project** being implemented in many schools involves a **knowledge section** and a **strategy section**.

The knowledge section introduces and revises the key number knowledge facts required.

The **strategy section** describes the mental processes students employ to estimate answers and solve problems involving the four operations of addition, subtraction, multiplication and division.

The strategy stages are listed in this table below

The aim of this project is to equip students with various strategies that allow them to be successful at Mathematics.

In order for this to occur, it is essential for students to be confident with number knowledge.



Without the 'knowledge', that is knowing the basic numeracy facts, it is difficult for a student to progress through the strategy stages. Students move through the strategy stages at different rates and may be working at different stages given a certain problem. This is often a result of gaps in key knowledge, hence it CANNOT be stressed enough the importance of learning the numeracy facts. How your child learns the numeracy facts is not as important as knowing them.

How to use this resource

40x Number Knowledge Worksheets Section

(Pages 8 to 12, 14 to 18, 20 to 24 & 26 to 30)

- The **40 worksheets** in this section systematically introduce and revise numeracy facts and number knowledge strategies.
- Presented in different formats, these worksheets are designed to reinforce the **Numeracy Development Programme.** It is intended that one worksheet per week is completed in the order presented, from worksheet 1 to worksheet 40.
- One worksheet from the Curriculum Strand Worksheet section is selected to be done in conjunction with the Number Knowledge Worksheet.

Book 8 covers the Strategy Stages 6 to 8.

One Worksheet from each section to be completed each week

40x Curriculum Strand Worksheets Section

(Pages 34 to 73)

- The **40 works needs** in this section cover the Achievement Objectives as outlined in **Mathematics in the New Zealand Curriculum** for Number & Algebra, Measurement & Geometry and Statistics.
- These worksheets can be completed in any order.
- The Curriculum Strand Worksheet selected is to be done in conjunction with the Number Knowledge Worksheet.
- The Curriculum Strand Worksheet selected relates to the topic being covered at school or as revision.
- Book 8 covers Level 5 of the Curriculum.

4x Number Knowledge Progress Assessments

(Pages 13, 19, 25 & 31)

An oral progress assessment is available after every 10 Number Knowledge worksheets.

Note to Parents / Care-givers:

Success in mathematics is greatly enhanced by having a good understanding of Number Knowledge. That is, from being able to add, subtract, multiply and divide with confidence, with success comes enjoyment.

The aim of this resource is to provide you with a systematic and comprehensive series of worksheets, differing you guidance as to how mathematics is taught within schools.

Each strand worksheet has an EXTENSION activity for you to do with your child to reinforce ideas covered in the worksheet.

How can you help?

Sit with your child as they work through each worksheet. Help them to understand what is required from each question, but try to avoid telling them the answers.

Numeracy Facts:

At the back of this resource there is a table of ALL numeracy facts introduced in this resource.

These tables can be used when assessing your child's Number Knowledge skill level.

There is also a 1 to 100 number matrix to assist your child to count in 1's up to 100.

Page	Number Knowledge Worksheet	Curriculum Strand Worksheet Enter the worksheet number you are doing this week	Tick when completed		Page	Number Knowledge Worksheet	Curriculum Strand Worksheet Enter the worksheet number you are doing this week	Tick when completed
8	1				20	21		
8	2				20	22		
9	3				21	23		
9	4				21	24		
10	5				22	2.5		
10	6				22	26		
11	7				23	27	5	
11	8				23	28		Ó
12	9				24	29		5
12	10				24	30		
13	Number Kno Ass	wledge Progress Ssment 1			25	Number Kno	wiedge Progress soment 3	
14					26	31		
14	12				26	32		
15	13	5			27	33		
15	14		~0		27	34		
16	15			_	28	35		
16	16				28	36		
17	17				29	37		
17	18				29	38		
18	19				30	39		
18	20				30	40		
19	Number Kno Asse	wledge Progress essment 2			31	Number Kno Asse	wledge Progress ssment 4	

Curriculum Strand Worksheets

(Tick next to worksheet as each ONE is completed)

Page 34	1	Revision	Tick	Page 54	21	Area - Square / rectangle / triangle	Tick
35	2	Addition & subtraction strategies		55	22	Area - Parallelogram / trapezium / circle	
36	3	Multiplication & division strategies		56	23	Circles - circumference & area	
37	4	Working with decimals		57	24	Volume	
38	5	Powers & Order of operations		58	25	Reading and drawing angles	
39	6	Decimal place / Significant figures		59	26	Angle rule revision	
40	7	Fractions / decimals / percentages		60	27	Interior angle sum of polygons	
41	8	Equivalent fractions / simplifying		61	28	Angles & parallel lines	
42	9	More fractions		62	20	Compass points and compass bearings	
43	10	Working with percentages		63	30	Constructions & loci	
44	11	Positive & negative numbers / Integers		64	31	Pythagoras and trigonometry ratios	
45	12	Standard form o ordinary numbers		65	63	Using trigonometry ratios	
46	13	Ratio & rates	0	66	33	Reflection & Rotation	
47	1	Number patterns or sequences		67	34	Enlargement & Translation	
48	15	'Like' terms, expanding & factorising		68	35	Mean, median, mode and the range	
49	16	Solving linear equations		69	36	Discrete / continuous data and histograms	
50	17	Plotting ordered pairs / linear graphs		70	37	Graphs - 1	
51	18	The metric system		71	38	Box & Whisker graphs and Pie graphs	
52	19	2-D and 3-D shapes / Nets		72	39	Probability calculations	
53	20	Perimeter		73	40	Finding outcomes & probabilities	

The following activities are covered in worksheets 1 to 10:

• EIGHTY activities involving ...

- skip counting in multiples, stating numbers that come before after or between given numbers;
- writing decimals as number words and number words as decimals;
- ordering numbers and decimals;
- adding numbers in a matrix;
- exploring place value using money, whole numbers and decimals,
- □ rounding numbers to the nearest 10, 100, 1000, 10th or 100th and finding estimated answers;
- finding a fraction of a group of shapes, a whole number or a decimal and chating equivalent fractions;
- Finding the multiples or factors for given numbers;
- converting between improper fractions and mixed numbers;
- converting between commonly used fractions, decimals and percentage
- finding a percentage of a whole number or decimal;
- finding the square or square root of a number;
- adding and subtracting integers;
- Using appropriate number strategies to revise the number combinations that add up to and include 18, including subtraction combinations.

Example: 93.04 + 40.6 + 8.3 = _____, 24.75 + ______69 = 130.45 etc.

Using appropriate number strategies to revise multiplication and division facts up to 10 x 10.

Example: 368 x 5 = (

The following activities are covered in worksheets 11 to 20:

EIGHTY activities involving ...

- skip counting in multiples, stating numbers that come before after or between given numbers;
- writing decimals as number words and number words as decimals;
- ordering numbers and decimals;
- adding numbers in a matrix;
- exploring place value using money, whole numbers and decimals,
- rounding numbers to the nearest 10,100, 100, 10th or 100th and finding estimated answers;
- finding a fraction of a group of shapes, a whole number or a decimal and creating equivalent fractions;
- finding the multiples and factors for given numbers;
- converting between improper fractions and mixed numbers;
- multiplying and dividing large numbers or decimals by 10, 100 or 1000;
- order of operations, BEDMAS;
- converting between commonly used fractions, decimals and percentages;
- finding a percentage of a whole number or decimal;
- finding the square or square root of a number;
- adding and subtracting integers;
- completing ratios;
- solving equations;
- simple word problems.
- Using appropriate **number strategies** to revise the number **combinations that add up to and include 18**, including subtraction combinations.
- Using appropriate number strategies to revise multiplication and division facts up to 10 x 10.

The following activities are covered in worksheets 21 to 30:

EIGHTY activities involving ...

- skip counting in multiples, stating numbers that come before after or between given numbers;
- writing decimals as number words and number words as decimals;
- ordering numbers and decimals;
- adding numbers in a matrix;
- exploring place value using money, whole numbers and decimals,
- rounding numbers to the nearest 10, 100, 1000, 10th or 100th and finding estimated answers;
- rounding numbers and decimal using decimal places or significant figures;
- finding a fraction of a group of shapes, a whole number or a decimal and creating equivalent fractions;
- finding the multiples and factors for given numbers;
- converting between improper fractions and mixed numbers;
- multiplying and dividing large numbers or decimals by 10, 100 or 1000;
- converting between ordinary numbers and standard form;
- order of operations, BEDMAS;
- converting between commonly used fractions, decimals and percentages
- finding a percentage of a whole number or decimal;
- finding the square or square root of a number and other powel
- adding and subtracting integers;
- adding and subtracting simple fractions;
- completing ratios;
- solving equations involving mixed number answers;
- simple word problems, some involving rates.
- Using appropriate number strategies to revise the number combinations at add up to and include 18. including subtraction combinations.
- Using appropriate number strategies to revise multiplication and division facts up to

The following activities are covered in worksheets 31 to 40:

EIGHTY activities involving ...

- skip counting in multiples, stating numbers that come before after or between given numbers;
- writing decimals as number words and number words as decimals;
- ordering numbers and decimals
- adding numbers in a matrix;
- e exploring place value using money, whole numbers and decimals,
- rounding numbers to the nearest 10, 100, 100, 10th or 100th and finding estimated answers;
 rounding numbers and decimal using decimal places or significant figures;
- finding a fraction of a group of shapes, a whole number or a decimal and creating equivalent fractions;
- finding the multiples and factors for given numbers;
- converting between improper fractions and mixed numbers;
- multiplying and dividing large numbers or decimals by 10, 100 or 1000;
- converting between ordinary numbers and standard form;
- order of operations, BEDMAS,
- converting between commonly used fractions, decimals and percentages;
- finding a percentage of a whole number or decimal;
- finding the square or square root of a number and other powers;
- adding and subtracting integers;
- adding and subtracting simple fractions;
- completing ratios;
- solving equations involving mixed number answers;
- simple word problems, some involving rates.
- Using appropriate **number strategies** to revise the number **combinations that add up to and include 18**, including subtraction combinations.
- Using appropriate number strategies to revise multiplication and division facts up to 10 x 10.

1			Term:	We	ek:	AWS
(1)	Write in the missing numbers as you skip count in 9's.	(5)	Adding lar 3143 + 7 471 + 20 72 + 494	rge numbers. 732 + 13 = 6 + 534 = 1 + 4124 =		252 63 10936 + 512
(2)	Round these numbers to the nearest 10. 231 = 683 = 1465 = 3249 =	(6)	Subtracti 1298 13427 27385	ng large num - 53 = - 965 =	bers.	5647 - 482
(3)	What fraction of each group Image: Simplify. of shapes is shaded? Simplify. Image: Simplify. Image: Image: Image: Simplify. Image: Simplify. Image: Image: Image: Image: Simplify. Image: Simplify. Image: Image: Image: Image: Image: Simplify. Image: Simplify. Image:	(7)	Multiplyin Example 231 348 × 4 = =	g lange numbo x 3 = (200 x 3) + ((x	ers using plo 30 × 3) + ((× 3)) + (x = 600 - 90 + 3 = 693) + (x) =
(4)	Fill in the missing fractions, decimals or percentages.	(8)	Dividing (2)75 3)61	rge numbers	5) <u>1</u> 4)2	275 684
Copyright	©2007 AWS Publications Ltd				This page	CANNOT be photocopied
2			Term:	We	ek:	AWS
(1)	Write these numbers in order from smallest to largest. 	(5)	Adding lar 462 + 14 535 + 41 + 972	rge numbers. + 2738 = + 4 2 +	7 = 3412 _ = 1670	1675 81 32523 + 426
(2)	List the first 5 multiples of these numbers. 2 =	(6)	Subtracti 3286 	ng large num 2608 	bers. = 2516 3 = 974 = 19706	15539 - 6351
(3)	Round these numbers to the nearest 100. 563 = 946 = 1470 = 2150 =	(7)	Multiplyin 57 ×	g whole numb 9 5	ers. 341 - <u>×6</u> -	920 x 23
(4)	Convert these percentages to decimals. 50% =	(8)	Dividing la <i>Example:</i> 145 436 ÷ 4 = =	urge numbers ÷ 5 = (100 ÷ 5) + (4 (÷ +	using multij 15 ÷ 5) = 20 + 9 =) + (=	bles of 10. 29 ÷)

			Term:		Week:		AWS	
(1)	Skip counting in 8's, write the number	(5)	Adding de	ecimals.			341.8	5
	that comes after		93.04 + 4	10.6 + 8.3	=		2.8	i
	24, 64, 72,		4.94 + 5	5 + 38.7 =	=		5291.0)
(0)			59 + 1.8	6 + 94.3	=			
(2)	Round these numbers to the nearest 10 or 100 and then work out an estimated answer.	(6)	Subtracti	i ng decim	nals.			
	89 + 104 + 493 = + + =		316.2	- 29.4 =			38.95	5
	1308 - 783		578.27	- 85.84			- 7.28	3
	1306 - 763		298.62	2 - 43.9 =				
(3)	Shade in part of each group of shapes to show you understand these fractions.	(7)	Multiplyi	g large n	umbers < 3) - (4 × 3	using 'tic	y numbers. = 888	
			368 × 5 -	(x	· · · ·	- (x)	
					G	=		
(4)	Convert these decimals to percentages.	(8)	Dividing d	lecimals.				
	05= 075=							
	0.67 = 0.09 = 0.9		51.	8		4)3	8.08	
Copyrial	at ©mor AWS Publications Ltd		6)3 5	. 4	0	7)2 This page	. 7 0 2	oied
			Term:		Meek.			
(1)	Write these nucleus words as a numeral	(CCR.			
	write tiese number words as a numera.	(5)	Adding	cimais.			65.81 0.35	5
	six hundred and two thousand, seven hundred		59.36 + 5 24.75	98.9 + 72	=	120.45	472.07	,
	and twenty nine		54 + 9 A	.	. = 69 + _	130.45 81.13 -	+ 3.98	;
			J + J.+	· •	= 0	-		
(2)	Round these numbers to the nearest 1000.	(6)	Subtracti	i ng decim	nals.			
	6327 1843 =		147.1		= 7	1.9	188.35	5
	32496 10935			64	.38 = 50	9.36	-	_
(a)			264.17		= 23	18.57	93.79	<i>•</i>
(3)	Add these positive and negative numbers.	(7)	Multiplyin	g decima	ls.		4.15	;
			53.	8	9.7	2 _	x 7.3	<u> </u>
	⁻⁵⁺⁹⁼ ⁻⁸⁺⁷⁼		x	4	x	6 –		
	13 + 9 = V× 3 + 12 =							_
(4)	Find the square of these numbers. Example: 3 ² = 3 × 3 = 9	(8)	Dividing la <i>Example:</i> 195	a rge num l ÷ 5 = (200 ÷	b ers usi i 5) - (5 ÷ 5)	ng 'tidy' = 20 - 1 = 1	numbers. 9	
	$6^2 = 11^2 =$		232 ÷ 8 =	(<u> </u>).	- (
				(·)	·	÷)	

- 9 -

This page MUST NOT be photocopied



- 10 -

7			Term:		Week:		AWS	
(1)	Skip counting in 6's, write the number	(5)	Adding de	cimals.			0.1	15
	that is between		93.09 + 6	.3 + 280.8	3 =		368.2	5
	48 60, 90 102, 24 36		2.31 + 382	2.74 + 69	.9 =		0.5	57 10
			5.205 + 6	.78 + 14.6	67 =		+ 17.0	0
(2)	Round these numbers to the nearest 10th.	(6)	Subtracti	ng decim	als.	-		
	2.43 = 3.74 =		301.8	3 - 47.4 =	:		584.0	06
	37.86 = 60.15 =		358.7	0 - 77.32	=		- 37.8	35
			1526.7	3 - 354.8	=		· · · · ·	
(3)	What is the place value of the BOLD digit and what does it mean? Example: In 4.52 the place value is $1/10$'s and it means $5/10$.	(7)	Multiplyi Example: 296	g large n x 3 = (300 >	umbers (3) - (4 x 3	using 'tic) = 900 - 12	y numbers = 888	l.
	3.46 = = 7.82 ==		588 × 6 -	(×)	- (×)	
	12.5 8 = = 39. 3 1 = =		<u> </u>		<u> </u>	=		
(4)	Find the square root of these numbers. Example: $\sqrt{9} = 3 \text{ as } 3 \times 3 = 9$	(8)	Dividing d	ecimals.			Ò	
	√81 = √16 =		63.	3 4		7)1	. 7 3 6	
	√64 = √1/44 =		8 4 9	. 6		9)3	7.53	
Copyrigh	t © ₂₀₀₇ AWS Publications Ltd					This page	CANNOT be photod	copied
8			Term:	0	Week:		AWS	
(1)	Write these number words as decimal numerals	(5)	Adding	cimals.			1.8	30 5 1
	nine point three zero seven		367.1 + 2.	54 + 82.6	0 35 - 4	675.00	48.4	-7
	forty-five point two eight three		168.6 + 44	.59 +	9.55 = 0	233.47 ⁻	+ 0.9	93
		(6)	Subtracti	na decim	ale	-		
(2)	Write two larger equivalent fractions.		257.9	ng uccim	- 20	84 0	700	F
	2		557.6	 ۸۵	20 7 2 - 27	04.9	- / 38	.5
	$\frac{1}{3}$		2916.7 -		= 25	9.07 666.91	678	.9
(3)	Round these numbers to the nearest 100th.	(7)	Multiplyin	g decimal	ls.		53.	.8
	0.138 = 7.145 =		35.	8	1.9	4 _	× 4.	.9
	50.342 = 23.0129 =		×	5	x	8		
(4)	Convert these fractions to percentages.	(8)	Dividing la <i>Example:</i> 195	arge numl + 5 = (200 +	Ders usi 5) - (5 ÷ 5)	ng 'tidy' = 20 - 1 = 1	numbers.	
	1/2 = $1/4 = $ $2/5 =$		873 ÷ 9 =	(÷) ·	- (÷)	
	2, 1, 5,	1						
	$-7_3 = \7_{25} = \7_8 = \$		=			=		

	9		Term:	Week:	AWS
(1)	Skip counting in 7's, write the number	(5)	Adding large	numbers.	370
	That comes after		157 + 1349	+ 23 =	67
	49, 77, 28,		90 + 748 +	2935 =	2585 + 915
			1376 + 20 +	· 398 =	. , ,13
(2)	Round these numbers to the nearest 10th and then work out an estimated answer .	(6)	Subtracting	large numbers.	
	12.19 + 5.83 = + =		4026 - 3	376 =	42000
	14 84 - 9 07 = - =		5802 - 8	316 =	- 975
(3)	Find each fraction of these decimals.	(7)	10393 - 4	937 =	
	$\frac{1}{2}$		Example: 231 × 3	$= (200 \times 3) + (30 \times 3) + (1 \times 3)$) = 600 + 90 + 3 = 693
	/3 0f 2/ /4 0f 36		645 × 7 = (x) + (x	_)+(×)
	⁵ / ₈ of 40 = ⁴ / ₇ of 49 =			+ _+	=
(4)	Add these positive and negative numbers	(8)		e numbers.	
				63	8
	-7 + 12 =5 + 5 =				
0	11 + ⁻ 12 = 9 + 12 =		3)520	7) 4	473
Copying				This page	
1	0		Term:	Week:	AWS
(1)	0 Write these decimals as number words.	(5)	Term: Adding large	week: numbers.	AWS
(1)	0 Write these decimals as number words. 2.307	(5)	Term: Adding large	Week: numbers. + 54 =	AWS 158 3564 27
(1) (1)	0 Write these decimals as number words. 2.307	(5)	Term: Adding large 482 + 1312 07 +	Week: numbers. + 54 = + 1398 = 1672	AWS 158 3564 27 + 318
(1)	0 Write these decimals as number words. 2.307 0.069	(5)	Term: Adding large 482 + 1312 67 + 2382 + 45 +	Week: numbers. + 54 = + 1398 = 1672 = 2613	AWS 158 3564 27 + 318
(1)	0 Write these decimals as number words. 2.307 0.069 What is the place value of the BOLD digit and what does it near?	(5)	Term: Adding large 182 + 1312 07 + 2382 + 45 + Subtracting	Week: numbers. + 54 = + 1398 = 1672 = 2613 large numbers.	AWS 158 3564 27 + 318
(1)	Write these decimals as number words. 2.307 0.069 What is the place value of the BOLD cligit and what does it mean? Example: In 4.52 rise place value is 1/10's and it means 5/10.	(5)	Term: Adding large 182 + 1312 07 + 2382 + 45 + Subtracting 2986	Week: numbers. + 54 = + 1398 = 1672 = 2613 large numbers. = 2302	AWS 158 3564 27 + 318 3637
(1)	Write these decimals as number words. 2.307 0.069 What is the place value of the BOLD cligit and what does it mean? Example. In 4.52 rise place value is 1/10's and it means 5/10. 2.97 = = 3 48 = =	(5)	Term: Adding large 482 + 1312 07 + 2382 + 45 + Subtracting 2986	Week: numbers. + 54 = + 1398 = 1672 2613 large numbers. 2302 - 358 = 4419	AWS 158 3564 27 + 318 3637 -
(1)	Write these decimals as number words. 2.307 0.069 What is the place value of the BOLD cligit and what does it mean? Example. In 4.52 the place value is 1/105 and it means 5/10. 2.97 = = 3.48 = 16.39 = = 94.67 = =	(5)	Term: Adding large 482 + 1312 67 + 2382 + 45 + Subtracting 2986 5633	Week: numbers. + 54 = + 1398 = 1672 = 2613 large numbers. = 2302 = 358 = 4419 = 3298	AWS 158 3564 27 + 318 3637 - 2241
(1) (2) (3)	Write these decimals as number words. 2.307 0.069 What is the place value of the BOLD digit and what does it n can? Example. In 4.52 the place value is 1/10's and it means 5/10. 2.97 =	(5) (6) (7)	Term: Adding large 482 + 1312 67 + 2382 + 45 + Subtracting 2986 5633 Multiplying w	Week: numbers. + 54 = + 1398 = 1672 = 2613 large numbers. = 2302 - 358 = 4419 = 3298 hole numbers.	AWS 158 3564 27 + 318 3637 - 2241 853 (7)
(1) (2) (3)	Write these decimals as number words. 2.307 0.069 What is the place value of the BOLD digit and what does it n can? Example: In 4.52 the place value is $\frac{1}{10}$ and it means $\frac{5}{10}$. 2.97 = = 3 48 = = 16.39 = = 94.67 = = Convert these mixed numbers to improper fractions. Example: $\frac{4^2}{3} = \frac{14}{3}$	(5)	Term: Adding large 482 + 1312 67 + 2382 + 45 + Subtracting 2986 5633 Multiplying w 269	Week: numbers. + 54 = + 1398 = 1672 = 2613 large numbers. = 2302 358 = 4419 = 3298 hole numbers. 326	AWS 158 3564 27 + 318 3637 - 2241 853 × 67
(1) (2) (3)	Write these decimals as number words. 2.307 0.069 What is the place value of the BOLD clipit and what does it n can? Example: In 4.52 the place value is $\frac{1}{10}$ s and it means $\frac{5}{10}$. 2.97 =	(5)	Term: Adding large 482 + 1312 67 + 2382 + 45 + Subtracting 2986 5633 Multiplying w 269 x 4	Week: numbers. + 54 = + 1398 = 1672 = 2613 large numbers. = 2302 358 = 4419 = 3298 hole numbers. 326 x 9	AWS 158 3564 27 + 318 3637 - 2241 853 × 67
(1) (2) (3)	Write these decimals as number words. 2.307 0.069 What is the place value of the BOLD cligit and what does it n can? Example: In 4.52 the place value is $\frac{1}{10}$ s and it means $\frac{5}{10}$. 2.97 =	(5)	Term: Adding large 482 + 1312 07 + 2382 + 45 + Subtracting 2986 5633 Multiplying w 269 × 4	Week: numbers. + 54 =	AWS 158 3564 27 + 318 3637 - 2241 853 × 67
(1) (2) (3) (4)	Write these decimals as number words. 2.307 0.069 What is the place value of the BOLD cluit and what does it n can? Example: In 4.52 rise place value is $\frac{1}{10}$ and it means $\frac{5}{10}$. $2.97 = \frac{1}{2} \cdot \frac{48}{6} = \frac{1}{2} = \frac{1}{2} \cdot \frac{48}{6} = \frac{1}{2} = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{3} = \frac{1}{2} \cdot \frac{1}{3} \cdot \frac{1}{5} = \frac{7}{4} \cdot \frac{7}{4} = \frac{1}{4^{3}/8} = \frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{8} = \frac{1}{2} \cdot \frac{1}{8} \cdot \frac{1}{8} \cdot \frac{1}{8} = \frac{1}{8} \cdot \frac{1}{8} \cdot \frac{1}{8} = \frac{1}{8} \cdot \frac{1}{$	(5) (6) (7) (8)	Term: Adding large 482 + 1312 07 + 2382 + 45 + Subtracting 2986 5633 Multiplying w 269 x 4 Dividing large Example: 145 + 5	Week: numbers. $+ 54 = _$ + 1398 = 1672 = 2613 large numbers. = 2302 = 3298 hole numbers. 326 = 3298 hole numbers. 326	AWS 158 3564 27 + 318 3637 - 2241 853 x 67 iples of 10. = 29
(1) (2) (3) (4)	Write these declinals as number words. 2.30' 0.069 What is the place value of the BOLD cluit and what does it mean? Example: In 4.52 the place value is $\frac{1}{10}$ and it mean $\frac{5}{10}$. 2.97 =	(5) (6) (7) (8)	Term: Adding large 482 + 1312 67 + 2382 + 45 + Subtracting 2986 5633 Multiplying w 269 x 4 Dividing large Example: 145 + 5 1648 + 8 = (Week: numbers. $+ 54 = _$	AWS 158 3564 27 + 318 3637 - 2241 853 × 67 iples of 10. = 29 _ ÷)
 (1) (2) (3) (4) 	Write these decimals as number words. 2.307 0.069 What is the place value of the BOLD clipit and what does in mean? Example: In 4.52 the place value is $\frac{1}{10}$ and it means $\frac{5}{10}$. 2.9) = 16.39 = = 16.39 = = 3 $\frac{1}{5}$ = $\frac{7^{3}}{4}$ = 6 $^{2}/_{3}$ = $\frac{7^{3}}{4}$ = 6 $^{2}/_{3}$ = $\frac{40\%}{8}$ = Convert these percentages to fractions. 50% = $\frac{50\%}{2}$ = $\frac{40\%}{2}$ = $\frac{50\%}{2}$ = $\frac{40\%}{2}$ = $\frac{6\%}{2}$ =	(5) (6) (7) (8)	Term: Adding large 482 + 1312 07 + 2382 + 45 + Subtracting 2986 5633 Multiplying w 269 x 4 Dividing large Example: 145 + 5 1648 + 8 = (week: numbers. $+ 54 = _$ + 1398 = 1672 = 2613 large numbers. = 2302 = 2302 = 3298 hole numbers. 326 g g g	AWS 158 3564 27 + 318 3637 - 2241 853 x 67 iples of 10. = 29 _ ÷)

	Practical / Oral Questions (Supply your child with some paper)								
1	Skip counting in 4's, 6's, 7's, 8 sequence of at least the first 10 r	s and 9's, ask you nultiples for each nu	r child to reci t umber.	te a forward an	d backward	yes / no			
2	Skip counting in 4's, 6's, 7's, 8 sequence of at least the first 10 r	s and 9's , ask you nultiples for each ու	r child to writ e umber.	e a forward and	backward	yes / no			
3	Write up to 10 2, 3, 4 or 5 digit r 100 or 1000.	umbers and ask you	ur child to roun	nd each number	to the nearest 10 ,	yes / no			
4	Addition and subtraction numeracy facts. Tick each correct answer.	\checkmark \checkmark $8 + 18 = 26$ 2 $25 - 6 = 19$ 13 $9 + 14 = 23$ 2 $23 - 2 = 21$ 2 $31 + 3 = 34$ 2 $25 - 2 = 23$ 4 $7 + 15 = 22$ 4 $26 - 7 = 19$ 4 $2 + 24 = 26$ 4 $30 - 9 = 21$ 34 $15 + 8 = 23$ 2 $23 - 6 = 17$ 9 $4 + 25 = 29$ 32 $32 - 6 = 26$ 9 $14 + 7 = 21$ 33 $18 - 2 = 16$ 2	\checkmark 1 - 7 = 14 3 + 4 = 17 9 - 8 = 21 8 + 2 = 30 1 - 9 = 12 $+ 18 = 22$ 2 - 8 = 24 4 + 1 = 45 3 - 8 = 35 4 + 4 = 38 3 - 4 = 19 + 19 = 28 9 - 6 = 23 + 13 = 22 8 - 9 = 29 3 + 7 = 30		24 - 2 = 22 $8 + 17 = 25$ $25 - 7 = 18$ $25 - 7 = 18$ $2 + 37 = 39$ $22 - 3 = 19$ $16 - 6 = 22$ $37 - 2 = 35$ $19 + 6 = 25$ $44 - 6 = 36$ $13 + 8 = 21$ $36 - 5 = 31$ $12 + 9 = 21$ $41 - 8 = 33$ $7 + 17 = 24$ $31 - 6 = 25$ $29 + 9 = 38$	yes/no			
5	 4x, 6x, 7x, 8x & 9x multiplication and division facts. Ask these facts one of several ways, as "What does 4 multiplied by 9 equal?" "What does 36 divided by 4 equal?" "What number multiplied by 4 gives you an answer of 36?" 	\checkmark \checkmark 10 x 6 = 60 4 16 \div 8 = 2 2 7 x 8 = 56 2 24 4 = 6 8 8 x 8 = 64 7 30 \div 6 = 5 3 $9 x 3 = 27$ 2 $63 \div 7 = 9$ 4 $10 x 4 = 40$ 4 $54 \div 9 = 6$ 4 $7 x 2 = 14$ 5 $18 \div 6 = 3$ 2 $6 x 6 = 36$ 7 $35 \div 7 = 5$ 4 $4 x 3 = 12$ 2 $36 \div 4 = 9$ 7	$ \begin{array}{c} 3 \\ 3 \\ 3 \\ 4 \\ 5 \\ 5 \\ 5 \\ 6 \\ 6 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7$	\checkmark $5 \times 8 = 40$ $54 \div 6 = 9$ $4 \times 7 = 28$ $70 \div 7 = 10$ $8 \times 6 = 48$ $24 \div 8 = 3$ $7 \times 3 = 21$ $20 \div 4 = 6$ $10 \times 8 = 80$ $72 \div 9 = 8$ $4 \times 8 = 32$ $80 \div 8 = 10$ $7 \times 6 = 42$ $16 \div 4 = 4$ $9 \times 5 = 45$ $49 \div 7 = 7$	\checkmark $7 \times 7 = 49$ $12 \div 4 = 3$ $8 \times 9 = 72$ $40 \div 4 = 10$ $4 \times 4 = 16$ $14 \div 7 = 2$ $9 \times 6 = 54$ $36 \div 6 = 6$ $7 \times 10 = 70$ $60 \div 6 = 10$ $3 \times 8 = 24$ $56 \div 7 = 8$ $4 \times 5 = 20$ $64 \div 8 = 8$ $4 \times 9 = 36$ $63 \div 9 = 7$	yes / no			

1	1		Term:	Week		AWS
(1)	Solve these equations.	(5)	Adding de	cimals.		9.5
	4d + 13 = 49 d =		56.84 + 5	30.23 + 9.7 =		4133.5
	7k - 19 - 37 k -		274.19 + 0	6.2 + 93.58 =		/1.5
	/K-1/-5/ K		8.7 + 39.	6 + 624.1 =		+ 021.1
(2)	Round these numbers to the nearest 10.	(6)	Subtracti	ng decimals.		
	362 = 257 =		148.45	5 - 5.27 =		148.83
	1846 = 2395 =		64.78	2 - 1.36 =		- 75.96
			931.0 -	463.23 =		
(3)	Find the square of these numbers.	(7)	Multiplyin Example: 296	g lange rumber x3 - (300 × 3) - (4 :	s using 'tio < 3) = 900 - 12	dy' numbers. ? = 888
	7 ² = 9 ² =		593 8 =	= (×) - (_ ×)
	12 ² = 20 ² =		<u> </u>	C	=	
(4)	Convert these percentages to decimals.	(ദ)	Dividing d	ecimals.		Ó
	25% = 30% =97% =		4) z .	9 2	7 3	
	124% = 4% =0.5% =		9)72	. 9	8)3	83.2
Copyrigh	t © ₂₀₀₇ AWS Publications Ltd				This page	CANNOT be photocopied
1	2		Term:	Week	:	AWS
(1)	Write these numbers in order 3.28	(5)	Adding de	cimals.		331.8
	tro si diles to largest. 0.329		13.6 + 324	ł.2 + 7.65 =		52.7
	0.0321		142.7 +	+ 4.55	= 157.67	5120.9
	,,		9.39 + 46.	8 + :	= 302.54 ⁻ -	
(2)	What is the place value of the BOLD digit and what does it mean?	(6)	Subtracti	ng decimals.		
			259.34	=	187.84	397.13
	4.13 = 6.27 =			21.53 =	436.27	-
	13.48 = = 31.94 = =		1788.3	=	162.87	342.49
(3)	Convert these percentages to fractions.	(7)	Multiplyin	g decimals.		74.1
			67.	3 3.	90 -	x 6.9
	40% = 663% = 5% =		X	5	<u> </u>	
	17% = 75% = 125% =					
(4)	Round these numbers to the nearest 100.	(8)	Dividing la Example: 195	a rge numbers u ÷5 = (200 ÷ 5) - (5 ÷	sing 'tidy ' 5) = 20 - 1 = 1	numbers. 9
	632 = 850 =		665 ÷ 7 =	(÷) - (÷)
	1794 = 1469 =		=		=	

- 14 -

1	3		Term:	Week:	AWS
(1)	Skip counting in 9's, write the number	(5)	Adding large num	bers.	5852
	that comes after		1943 + 32 + 751	=	770
	81, 45, 108,		847 + 5390 + 29) =	36 ± 519
			89 + 302 + 6731		+ 519
(2)	Round these numbers to the nearest 10 or 100 and then work out an estimated answer.	(6)	Subtracting large	e numbers.	
	78 + 194 + 34 = + + =		4620 - 673 =		27000
	6345 - 287 = =		7208 - 618 = 12393 - 739 =		- 579
(3)	Find each fraction of these decimals.	(7)	Multiplying large	numbers using pla	nce value.
	$^{1}/_{7}$ of 5.6 = $^{2}/_{5}$ of 23.5 =		276 × 9- (x) + (x) + (x)
	² / ₃ of 12.9 = ⁷ / ₈ of 25.6 =			<u> </u>	=
(4)	Convert these decimals to percentages.	(8)	Dividing large nun	bers with remain	nders.
	0.25 = 0.9 = 0.65 =		3 4 2 7	6) 2	3 9 8
	0.004 = 0.08 = 2.75 =		5 6 8 4	8)9	207
Copyrig	ht ©2007 AWS Publications Ltd			This page	CANNOT be photocopied
_1	4		Term:	Week:	AWS
(1)	Order of operations. BEDMAS	(5)	Adding large num	bers.	851
	9 + 32 ÷ 4 • 82 - 7 × 9 =				
			45 3421 + 284	=	4653
	$2 \times 7 + 3^2 = 3(8 + 4 \times 3) =$		45 - 3421 + 284 1893 +	= + 76 = 2127	4653 72 + 913
	2 × 7 + 3 ² = 3(8 + 4 × 3) =		45 + 3421 + 284 1893 + 283 + 54 +	= + 76 = 2127 = 3162	4653 72 + 913
(2)	2 × 7 + 3 ² = 3(8 + 4 × 3) = Round these numbers to the nearest 1000.	(6)	45 3421 + 284 1893 + 283 + 54 + Subtracting large	= + 76 = 2127 = 3162 - e numbers.	4653 72 + 913
(2)	2 × 7 + 3 ² = 3(8 + 4 × 3) = Round these numbers to the nearest 1000 2530 = 9190 =	(6)	45 3421 + 284 1893 + 283 + 54 + Subtracting large 6892	= + 76 = 2127 = 3162 numbers. = 2032	4653 72 + 913 6347
(2)	$2 \times 7 + 3^2 = $ $3(8 + 4 \times 3) = $ Round these numbers to the nearest 1000 2530 = $9190 =12499 = $ $23710 =$	(6)	45 3421 + 284 1893 + 283 + 54 + Subtracting large 6892	= + 76 = 2127 = 3162 e numbers. = 2032 853 = 9144	4653 72 + 913 6347 -
(2)	$2 \times 7 + 3^2 = $ $3(8 + 4 \times 3) = $ Round these numbers to the nearest 1000 2530 = $9190 =12499 = $ $23710 =$	6)	45 3421 + 284 1893 + 283 + 54 + Subtracting large 6892 7336	$= _ + 76 = 2127$ $= 3162 = $	4653 72 + 913 6347 - 1422
(2) (3)	$2 \times 7 + 3^2 =$ $3(8 + 4 \times 3) =$ Round these numbers to the nearest 1000. 2530 = $9190 =12499 =$ $23710 =Find the percentage of these numbers.$	(6)	45 3421 + 284 1893 + 283 + 54 + Subtracting large 6892 7336 Multiplying whole	= + 76 = 2127 = 3162 - e numbers. = 2032 853 = 9144 = 2389 numbers.	4653 72 + 913 6347 - 1422 806
(2) (3)	$2 \times 7 + 3^2 =$ $3(8 + 4 \times 3) =$ Round these numbers to the nearest 1000 2530 = $9190 =12499 =$ $23710 =Find the percentage of these numbers.50%$ of $84 =$ $25%$ of $52 =$	(6)	45 3421 + 284 1893 + 283 + 54 + Subtracting large 6892 7336 Multiplying whole 982	= + 76 = 2127 = 3162 - e numbers. = 2032 853 = 9144 = 2389 numbers. 745 -	4653 72 + 913 - - - - - - - - - - - - - - - - - - -
(2)	$2 \times 7 + 3^2 = $ $3(8 + 4 \times 3) = $ Round these numbers to the nearest 1000 2530 = $9190 =12499 = $ $23710 =Find the percentage of these numbers.50%$ of $84 = $ $25%$ of $52 =10%$ of $96 = $ $40%$ of $70 =$	(6)	45 3421 + 284 1893 + 283 + 54 + Subtracting large 6892 7336 Multiplying whole 982 x 4	= + 76 = 2127 $= 3162$	4653 72 + 913 6347 - 1422 806 × 37
(2) (3) (4)	$2 \times 7 + 3^2 =$ $3(8 + 4 \times 3) =$ Round these numbers to the nearest 1000 2530 = $9190 =12499 =$ $23710 =Find the percentage of these numbers.50% of 84 =$ $25% of 52 =10% of 96 =$ $40% of 70 =Find the square root of these numbers.Example: \sqrt{9} = 3 \text{ as } 3 \times 3 = 9$	(7)	$45 3421 + 284$ $1893 + _$ $283 + 54 + _$ $Subtracting large$ $6892 - _$ $- _$ $7336 - _$ $Multiplying whole$ 982 $\times 4$ $- _$ $Dividing large num Example: 145 ÷ 5 = (100)$	=	4653 72 + 913 - - - - - - - - - - - - - - - - - - -
(2) (3) (4)	$2 \times 7 + 3^2 = $ $3(8 + 4 \times 3) = $ Round these numbers to the nearest 100. 2530 = $9190 =12499 = $ $23710 =Find the percentage of these numbers.50% of 84 = $ $25% of 52 =10% of 96 = $ $40% of 70 =Find the square root of these numbers.Example: \sqrt{9} = 3 \text{ as } 3 \times 3 = 9\sqrt{25} = \sqrt{49} = $	(7)	45 $3421 + 284$ 1893 + 283 + 54 + Subtracting large 6892 7336 Multiplying whole 982 x 4 Dividing large num Example: 145 ÷ 5 = (100) 963 ÷ 9 = (=	4653 72 + 913 6347 - 1422 806 x 37 ples of 10. 29 ÷)
(2) (3) (4)	$2 \times 7 + 3^{2} = \underline{\qquad} 3(8 + 4 \times 3) = \underline{\qquad}$ Round these numbers to the nearest 100. $2530 = \underline{\qquad} 9190 = \underline{\qquad}$ $12499 = \underline{\qquad} 23710 = \underline{\qquad}$ Find the percentage of these numbers. $50\% \text{ of } 84 = \underline{\qquad} 25\% \text{ of } 52 = \underline{\qquad}$ $10\% \text{ of } 96 = \underline{\qquad} 40\% \text{ of } 70 = \underline{\qquad}$ Find the square root of these numbers. $Example: \ 9=3 \ as \ 3 \times 3 = 9$ $\sqrt{25} = \underline{\qquad} \sqrt{49} = \underline{\qquad}$ $\sqrt{121} = \underline{\qquad} \sqrt{400} = \underline{\qquad}$	() (7) (8)	$45 3421 + 284$ $1893 + \$ $283 + 54 + \$ Subtracting large $6892 - \$ $7336 - \$ $7336 - \$ $7336 - \$ Multiplying whole 982 $x \ 4$ $$ Dividing large num <i>Example:</i> 145 ÷ 5 = (100	=	$ \begin{array}{r} 4653 \\ 72 \\ + 913 \\ \hline 6347 \\ \hline 1422 \\ 806 \\ x 37 \\ \hline ples of 10. \\ 29 \\ \hline $

1	5		Term:	Week:	AWS
(1)	Skip counting in 8's, write the number	(5)	Adding decimal	S.	53.31
			7.9 + 65.48 + 3	305.32 =	533.14
	, 48, 120, 88		39.85 + 247.9	1 + 2.6 =	- + 12.16
(2)			142.6 + 7.8 +	69.3 =	
(2)	what is the place value of the BOLD digit and what does it mean?	(6)	Subtracting de	ecimals.	
	2 9 .34 = = 3 59 ==		548.41 - 9.2	25 =	3884.1
	7.9 5 = = 6. 7 2 = =		82.746 - 6.3	31 =	- 695.7
(2)	Find the new subset of the set desired	(7)	Aultinking lag	.04 =	tick' numbers
(3)	Find the percentage of these decimals.		<i>Example:</i> 304 × 3 = (:	300 x 3) + (4 x 3) = 900	12 = 912
	33⅓% of 12.6 = 20% of 9.5 =		702 0 = ()+())
	25% of 0.48 = 80% of 20.5 =		<u> </u>	<u> </u>	
(4)	Convert these decimals to fractions.	(8)	Dividing decima	lls.	
	04 - 017 - 023				
			4)3.44		2 2 2
	0.08 = 3.75 = 0.005 =		5)78.5	9)	6.048
Copyrig	ht ©2007 AWS Publications Ltd			This pa	
_1	6		Term:	Week:	AWS
(1)	Round these numbers to the nearest 10 or 100	(5)	Adding decimal	S.	31.8
			31.6 + 342.2 + 0	6.75 =	5152.7 7 5
	256 + 107 + 86 =++=		417.2 +	+ 5.45 = 721.76	+ 347.9
	6810 - 516 = =		3.93 + 64.8 +	= 203.45	
(2)	Multiplying by 10, 100 or 1000.	(6)	Subtracting de	ecimals.	
	56 × 10 = 2 34 × 1000 =		925.43	= 781.48	739.13
	0.34 × 1000 = 136 × .00 =			- 35.12 = 634.92	-
			1298.3	= 526.78	234.49
(3)	Convert these improper fractions to mixed numbers F_{xample} : ${}^{11}/_{4} = 2^{3}/_{4}$	(7)	Multiplying dec	imals.	5.74
	$19/_{\rm E} = 37/_{\rm O} =$		6.78	43.6	x 9.2
	²⁷ / ₆ = ⁴⁸ / ₉ =		<u>× 5</u>	x 8	
(4)		(8)		umbong ugino 'tid	
	on a bus ride to the zoo. If this group		<i>Example:</i> 195 ÷ 5 = (2	200 ÷ 5) - (5 ÷ 5) = 20 - 1	= 19
	makes up $^{1}/_{5}$ of the Room 8 pupils,		873 ÷ 9 = (÷)-(
	how many pupils are there in Room 8? 🛛 🔊 🕅		0/0 /) = (·)

1	7		Term:	Week:		AWS]
(1)	Skip counting in 9's, write the number	(5)	Adding large	e numbers.		3418	3
	that is between		9304 + 400	6 + 83 =		28	3
	36 54, 72 90, 108 126		494 + 54 +	2387 =		52910) 1
			59 + 4186	+ 943 =		+ 30-	+
(2)	Round these numbers to the nearest 10th.	(6)	Subtracting	large number	- S.		
	60.92 = 5.374 =		3162 -	294 =		2389	5
	9.765 = 78.049 =		57827 -	8584 =		- 728	8
			29862 -	- 439 :		_	
(3)	Solve these equations, with mixed number answers.	(7)	Multiplying Example: 231 x	arge numbers = (200 × 3) + (30 ×	using plo 3) + (1 × 3)	= 600 + 90 + 3 = 6	,93
	7d + 21 = 32 d =		400 0 (`
	8k - 14 = 59 k =		=	x)+(+	_)+(× =)
(4)	Convert these fractions to decimals.	(8)	Dividing lar	e numbers wit	h remain	nders.	
	1/2 = 2/2 = 2/2 = 2/3		6 5 9 2		7)2	398	
	$^{3}/_{4} = $ $^{7}/_{10} = $ $^{3}/_{100} = $						
Copyrig	ht ©2007 AWS Publications Ltd		/91	~ 2	9)4 This page	6 U / CANNOT be photoco	pied
1	8		Term:	Week:		AWS]
(1)	Write these number words as decimal	(5)	Addinglarge	e numbers.		658:	1
	numerals		<mark>5936</mark> + 589	+	= 6597	35	5
	one hundred point two zero eight		2475+	+ 769 :	= 6045	47207	7
	sixty-seven point zero zero nine five						
(2)			54 + 2394	+=	= 3213 -	+ 398	
	Write two equivalent fractions.	(6)	54 + 2394 Subtracting	+= large number	= 3213 - - s.	+ 398	<u> </u>
	Write two equivalent fractions.	(6)	54 + 2394 Subtracting 1473 -	+ = large number =	= 3213 - s. 719	+ 398	5
	Write two equivalent fractions. $\frac{3}{5} = \frac{2}{7} = \frac{2}{7} = \frac{2}{7} = \frac{2}{7}$	(6)	54 + 2394 Subtracting 1473 -	+ = large number = 6438 = 5	s. 719 0936	+ 398	5
	Write two equivalent fractions. $\frac{3}{5} = \frac{2}{7} = \frac{2}{7} = \frac{2}{7}$	(6)	54 + 2394 Subtracting 1473 - 26417 -	+ = large number = 6438 = 5 = 2	3213 - s. 719 0936 21857	+ 398 1883 - 9379	5
(3)	Write two equivalent fractions. $\frac{3}{5} = \frac{2}{7} = \frac{2}{7} = \frac{2}{7}$ Round these numbers to the nearest 100th.	(6) (7)	54 + 2394 Subtracting 1473 - 26417 - Multiplying v	+ = large number = 6438 = 5 = 2 whole numbers	s. 719 0936 21857	+ 398 1883 - 937 605	5 5
(3)	Write two equivalent fractions. $\frac{3}{5} = \frac{2}{7} = \frac$	(5)	54 + 2394 Subtracting 1473 - 26417 - Multiplying v 238	+ = large number = 6438 = 5 = 2 whole numbers 51	3213 - s. 719 0936 21857	+ 398 1883 - 9379 6053 × 27	5 5 9 1
(3)	$\frac{3}{5} = \frac{2}{7} = 2$	(5)	54 + 2394 Subtracting 1473 - 26417 - Multiplying 238 × 8	+ = large number = 6438 = 5 = 2 whole numbers 51 ×	3213 - s. 719 0936 21857	+ 398 1883 - 937 605 x 27	5 9 1 7
(3) (4)	Write two equivalent fractions. $\frac{3}{5} = \frac{2}{7} = \frac$	(6) (7) (8)	54 + 2394 Subtracting 1473 - 26417 - 238 238 x 8 Dividing large Example: 145 + 5	+ = large number = 6438 = 5 = 2 whole numbers 51 \$ 55 \$ 555 \$ 555 \$ 5555 \$ 555555 \$ 55555555	 3213 - s. 719 0936 21857 .7 9 .9 .9	+ 398 1883 - 937 605 x 27 ples of 10. 29	5 9 1 7
(3)	Write two equivalent fractions. $\frac{3}{5} = \frac{2}{5} = \frac{2}{7} = \frac{2}{7}$	(6) (7) (8)	54 + 2394 Subtracting 1473 - 26417 - Multiplying 238 x 8 Dividing larg Example: 145 + 5 424 + 8 = (+ = large number = 6438 = 5 = 2 whole numbers 51 \$ 51 52 51 51 52 51 52 51 52 	s. 719 0936 21857	+ 398 1883 - 937 605 x 27 ples of 10. 29 _÷)	5 9 1 7

| - 17 -

1	9		Term:		Week:		AWS
(1)	Skip counting in 9's, write the number	(5)	Adding de	ecimals.			462.52
	that comes after		144.3 + 7	7.32 + 1.3	=		0.63
	81, 45, 108,		4.71 + 26	6 + 853.4	=		3109.36 + 45.12
			7.2 + 94.	4 + 4.124	=		. 10.12
(2)	Round these numbers to the nearest 10th and then work out an estimated answer .	(6)	Subtracti	i ng decimo	als.	-	
	40.20 + 8.72		129.	8 - 5.3 = _			564.7
	40.29 + 6.73 +		134.2	7 - 96.5 =			- 48.2
	32.54 - 7.25 = =		2738.	5 - 36. <mark>21</mark> :	=		
(3)	Dividing by 10, 100 or 1000.	(7)	Multiplyin Example: 296	g lange nu × 3 = (300 ×	mbers 3) - (4 × 3)	using 'tid) = 900 - 12	y' numbers. = 888
	265 ÷ 10 = 736 ÷ 100 =		85				×)
	3.48 ÷ 100 = 412 ÷ 1000 =		=	· ^	6	=	^)
(4)	Add these positive and negative numbers	(3)	Dividing d	ecimals w	ith rem	ainders.	Ò
			5)6	4-8		69	6 1 4
	⁻⁹ +8=						
Convri	8 + -11 = + -3 =		3) 8 7	. 5	0	8)7	. 4 9 3
Copying						inio pago i	
			Term:		Neek:		AWS
(1)	Write these decimals as number words.	(5)	Adding de	cimals.			167.5
	102		46.2 + 41	+	= 8	9.983	8.1
			5.53 +		+ 47 =	314.2	3252.3
	40.961		41 + 9.27	′ +	= 2	176.0 -	1 12.0
(2)	What is the place value of the BOLD digit and	(6)	Subtracti	i ng decimo	als.		
	what does in hear		32.86		= 2	.516	155.39
	1.70 = = 7.28 = =						
				2	6.08 = 9	97.4	-
	1 51.9 = = 1 9 .34 = =		2157.3	2 	6.08 = 9 = 19	97.4 9.706	63.51
(3)	151.9 = = 19.34 = = Convert these mixed numbers to	(7)	2157.3 Multiplyin	2 g decimals	6.08 = 9 = 19 s.	97.4 9.706	- 63.51 0.589
(3)	151.9 = = 19.34 = = Convert these mixed numbers to improper fractions. Example: 4 ² / ₃ = ¹⁴ / ₃	(7)	2157.3 Multiplyin 4.8	2 g decimals 9	6.08 = 9 = 19 s. 23.1	97.4 9.706 7	- 63.51 0.589 × 4.8
(3)	1 51.9 = = 19.34 = = Convert these mixed numbers to improper fractions. <i>Example</i> : $4^{2}/_{3} = 1^{4}/_{3}$ $3^{7}/_{8} = 4^{4}/_{9} =$	ຕາ	2157.3 Multiplyin 4.8 × 0.	2 g decimal: 9 5	6.08 = 9 = 19 s. 23.7 0.0	97.4 9.706 7 <u>–</u>	- 63.51 0.589 x 4.8
(3)	$151.9 = _ = 19.34 = _ = _$ Convert these mixed numbers to improper fractions. Example: $4^{2}/_{3} = \frac{14}{3}$ $3^{7}/_{8} = _ 4^{4}/_{9} = _$ $5^{4}/_{5} = 6^{2}/_{11} = _$	(7)	2157.3 Multiplyin 4.8 × 0.	2 g decimal: 9 5	6.08 = 9 = 19 s. 23.7 0.0	97.4 9.706 7 <u>–</u> 6 –	- 63.51 0.589 × 4.8
(3) (4)	151.9 = = 19.34 = = Convert these mixed numbers to improper fractions. Example: $4^2/_3 = \frac{14}{3}$ $3^7/_8 = 4^4/_9 = 5^4/_5 = 6^2/_{11} = Convert these fractions to percentages.$	(7)	2157.3 Multiplyin 4.8 × 0. Dividing la Example: 195	2 g decimals 9 5 arge numb + 5 = (200 + 5	6.08 = 9 = 19 s. 23.7 23.7 x 0.07 eers usir	97.4 9.706 7 6 ng 'tidy' 1 = 20 - 1 = 19	- 63.51 0.589 × 4.8 numbers.
(3) (4)	$151.9 = _ = 19.34 = _ = _$ Convert these mixed numbers to improper fractions. Example: $4^{2}/_{3} = \frac{14}{3}$ $3^{7}/_{8} = _ 4^{4}/_{9} = _$ $5^{4}/_{5} = 6^{2}/_{11} = _$ Convert these fractions to percentages. $1^{1}/_{4} = _ 1^{1}/_{3} = _ 4^{1}/_{5} = _$	(7)	2157.3 Multiplyin 4.8 x 0. Dividing la Example: 195 232 ÷ 8 =	2 g decimals 9 5 arge numb + 5 = (200 + 5 (6.08 = 9 = 19 s. 23.7 $\times 0.07$ s.	97.4 9.706 7 6 ng 'tidy' 1 = 20 - 1 = 19	- 63.51 0.589 × 4.8 numbers.
(3) (4)	$151.9 = _ = _ 19.34 = _ = _$ Convert these mixed numbers to improper fractions. <i>Example:</i> $4^{2}/_{3} = \frac{14}{3}$ $3^{7}/_{8} = _ 4^{4}/_{9} = _$ $5^{4}/_{5} = 6^{2}/_{11} = $ Convert these fractions to percentages. $1/_{4} = _ 1/_{3} = _ 4/_{5} = _$ $7/_{8} = _ 1/_{20} = _ 3/_{100} = _$	(7)	2157.3 Multiplyin 4.8 $\times 0.$ Dividing la Example: 195 $232 \div 8 =$	2 g decimals 9 5 arge numb + 5 = (200 + 5 (÷ _	6.08 = 9 = 19 s. 23.7 x 0.0 bers usin) -	97.4 9.706 7 6 ng 'tidy' 1 = 20 - 1 = 19 - (- 63.51 0.589 x 4.8 numbers.

- 18 -

This page MUST NOT be photocopied

	Practical / Oral Questions (Supply your child with some paper)											
1	Skip counting in 4's, 6's, 7's, 8 sequence of at least the first 10 r	s and 9's, ask your child to recite a forward and backward nultiples for each number.	yes / no									
2	Skip counting in 4's, 6's, 7's, 8 sequence of at least the first 10 r	s and 9's , ask your child to write a forward and backward nultiples for each number.	yes / no									
3	Write up to 10 2, 3, 4 or 5 digit r 100 or 1000.	umbers and ask your child to round each number to the nearest	10, yes / no									
4	Addition and subtraction numeracy facts. Tick each correct answer.	\checkmark \checkmark \checkmark \checkmark \checkmark $2 + 24 = 26$ $24 - 2 = 22$ $5 + 35 = 40$ $43 - 8 = 35$ $30 - 9 = 21$ $8 + 17 = 25$ $37 - 6 = 31$ $34 + 4 = 28$ $15 + 8 = 23$ $25 - 7 = 18$ $17 + 6 = 23$ $23 - 4 = 19$ $23 - 6 = 17$ $2 + 37 = 39$ $43 - 9 = 39$ $9 + 33 = 48$ $4 + 25 = 29$ $22 - 3 = 19$ $3 + 23 = 26$ $29 - 6 = 23$ $32 - 6 = 26$ $16 + 6 = 22$ $44 - 8 = 36$ $9 - 13 = 22$ $14 + 7 = 21$ $37 - 2 = 35$ $6 + 18 = 24$ $38 - 9 = 29$ $18 - 2 = 16$ $19 + 6 = 25$ $28 \cdot 3 = 25$ $23 + 7 = 30$ $8 + 16 = 24$ $21 - 7 = 14$ $8 + 18 = 26$ $44 - 6 = 38$ $36 - 8 = 23$ $13 + 4 = 17$ $25 - 6 = 19$ $13 + 8 = 21$ $7 + 31 = 38$ $29 - 8 = 21$ $9 + 14 = 23$ $36 \cdot 5 = 31$ $32 - 5 = 27$ $28 + 2 = 30$ $23 - 2 = 21$ $12 + 9 = 21$ $19 + 7 = 26$ $21 - 9 = 12$ $31 + 3 = 34$ $41 - 8 = 33$ $30 - 6 = 24$ $4 + 18 = 22$ $25 \cdot 2 = 23$ $7 + 17 = 24$ $15 + 6 = 21$ $32 - 8 = 24$ $r + 15 = 22$ $31 - 6 = 25$ $24 - 7 = 17$ $44 + 1 = 45$ $26 - 7 = 19$ $19 + 9 = 28$	Y yes / no									
5	 4x, 6x, 7x, 8x & 9x multiplication and division facts. Ask these facts one of several ways, as "What does 4 multiplied by 9 equal?" "What does 36 divided by 4 equal?" "What number multiplied by 4 gives you an answer of 36?" 	\checkmark \checkmark \checkmark \checkmark \checkmark \checkmark $54 \div 9 = 6$ $40 - 8 = 5$ $81 \div 9 = 9$ $60 \div 6 = 10$ $7 \times 2 = 14$ $5 \times 6 = 30$ $4 \times 8 = 32$ $3 \times 8 = 24$ $18 \div 6 = 3$ $28 \div 4 = 7$ $72 \div 8 = 9$ $56 \div 7 = 8$ $6 \times 6 = 36$ $7 \times 9 = 63$ $7 \times 6 = 42$ $4 \times 5 = 20$ $35 \div 7 = 5$ $48 \div 6 = 8$ $16 \div 4 = 4$ $64 \div 8 = 8$ $4 \times 3 = 12$ $2 \times 9 = 18$ $9 \times 5 = 45$ $4 \times 9 = 36$ $36 \div 4 = 9$ $80 \div 8 = 10$ $49 \div 7 = 7$ $63 \div 9 = 7$ $10 \times 6 = 60$ $4 \times 9 = 36$ $5 \times 8 = 40$ $7 \times 7 = 49$ $16 \div 8 = 2$ $21 \div 7 = 3$ $54 \div 6 = 9$ $12 \div 4 = 3$ $7 \times 8 = 56$ $3 \times 6 = 18$ $4 \times 7 = 28$ $8 \times 9 = 72$ $24 \div 4 = 6$ $72 \div 9 = 8$ $70 \div 7 = 10$ $40 \div 4 = 10$ $8 \times 8 = 64$ $7 \times 5 = 35$ $8 \times 6 = 48$ $4 \times 4 = 16$ $30 \div 6 = 5$ $32 \div 4 = 8$ $24 \div 8 = 3$ $14 \div 7 = 2$ $9 \times 3 = 27$ $2 \times 8 = 16$ $7 \times 3 = 21$ $9 \times 6 = 54$ $63 \div 7 = 9$ $42 \div 6 = 7$ $20 \div 4 = 6$ $36 \div 6 = 6$ $10 \times 4 = 40$ $4 \times 6 = 24$ $10 \times 8 = 80$ $7 \times 10 = 70$	✓ _ yes / no									
Copyright ©	Number	Knowledge - the key to success!	al to photocopy this pac									

2	1		Term:	Week:		AWS
(1)	Multiplying by 10, 100 or 1000.	(5)	Adding lar	rge numbers.		315
	562 × 10 = 1.2 × 1000 =		9309 + 6	53 + 808 =		36825
	3 4 × 1000 = 0.79 × 100 =		2631 + 38	274 + 699 =		457
	0.79 * 1000 =		5205 + 67	78 + 14267 =		+ 1/80
(2)	Round these numbers to the nearest 10 or 100 and then work out an estimated answer.	(6)	Subtracti	ng large number	- S.	
	221 - 00 - 412 -		3578	= 2	849	12385
	231 + 69 + 412 = + + =			4872 = 2	7967	- (700
	6539 - 795 = =		29167 -	= 2!	56691	6/89
(3)	Find the square root of these numbers.	(7)	Multiplyin	g whole numbers	. 🗶	1673
	√144 = √81 =		410	8 294	5	× 39
	√225 = √400 =		×	7 ×	6 –	
(4)	Convert these percentage to decimals.	(8)		nge numbers wit	h remain	iders.
	70% = 39% = 09% =		7)95	3	56	581
	420% = 8% = 665% =					
Copyrig	ht © ₂₀₀₇ AWS Publications Ltd	Ċ	4)/1		9) / This page (U 6 8 CANNOT be photocopied
2	2		Term:	Week:		AWS
(1)	Order of operations. REMAS	(5)	Adding lar	ge numbers.		2571
	15 + 6 × 9 = 91 - 60 ÷ 15 =		734 + 68	3 + 2412 =		83
	$72 \pm 8 \pm 7^2 = 5(31, 3 \pm 8) =$		547 +	+ 35 =	3412	31426
	/2+0+/		71 + 942	2 + =	1670 -	+ 025
(2)	Find the square or powers of these numbers.	(6)	Subtracti	ng large number	- S.	
	$5^2 = $ $1^2 = $		3084	- 447 =		54806
	10 ³ = 3 ⁴ =		45780) - 7372 =		- 7385
			156273	3 - 5348 =		
(3)	Convert these percentions to fractions.	(7)	Multiplyin Example: 231	g large numbers × 3 = (200 × 3) + (30 ×	using pla 3) + (1 × 3) :	ce value. = 600 + 90 + 3 = 693
	33 ¹ / ₃ % = 80% = 75% =		453 x 7 =	(x)+(, x)+(x)
	4% = 150% = 43% =		=	·+	^~= _+=	:
(4)	Round these numbers to 1 decimal place.	(8)	Dividing lo <i>Example:</i> 145	a rge numbers usi + 5 = (100 ÷ 5) + (45 ÷ 5	ng multip 5) = 20 + 9 =	oles of 10. 29
	3.94 = 9.06 =		927 ÷ 9 =	(÷)	+ (÷)
	21.45 = 6.128 =		=	·/	=	,
		1				

	23		Term:	Week:		AWS
(1)	Dividing by 10, 100 or 1000.	(5)	Adding de	cimals.		4.37
	245 ÷ 10 = 5.76 ÷ 100 =		72.6 + 4.8	853 + 42 =		129.80
	89.34 ÷ 100 = 1047 ÷ 1000 =		4.7 + 223	8 + 34.98 =		0.22 + 85.08
			6941 + 8	.6 + 1.19 =		
(2)	Find each fraction of these decimals.	(6)	Subtracti	ng decimals.		
	¹ / ₃ of 14.4 = ² / ₅ of 6.5 =		723.8	= 7	71.53	439.58
	$\frac{3}{4}$ of 6.3 - $\frac{4}{6}$ of 0.72 -			64.9 = 3	26.3	-
	/7 01 0.3 /9 01 0.72		510.94	+ =	312.7	97.99
(3)	Round these numbers to 1 significant figure.	(7)	Multiplyi	decimals.		0,479
	2350 = 69000 =	_	2.8	5 61.5	4 —	x 0.59
	0.021 = 0.0048 =		x 0.4	4 <u>× 0.0</u>	7	
				-		
(4)	Convert these decimals to percentages.	(8)	Dividing la Example 195	urge numbers usin 5 = (200 ÷ 5) - (5 ÷ 5)	ng 'tidy' = 20 - 1 = 1	numbers.
	0.23 = 0.66 ⁻ = 0.08 =	2	665 - 7 -	÷).	- (÷)
	0.45 = 3.50 = 0.7 =					,
Сору	rright ©2007 AWS Publications Ltd				This page	CANNOT be photocopied
	24		Term:	Week:		AWS
(1)	Convert these mixed numbers to	(5)	Adding	cimais.		75.81
	improper fractions. Example: 42/3=14/3		<mark>79.96</mark> + 5	8.3 + 52 =		3.35
	$2^{3}/_{4} = 7^{2}/_{9}$		64 <mark>.75</mark> +	+ 29 = 1	130.45	462.07 + 0.98
	$4^{1}/_{5} = $		59 + 4.4	+ = 8	31.13 ⁻	0.70
(2)	Add these positive and negative numbers	(6)	Subtracti	ng decimals.		
			329.2	- 16.4 =		83.95
	⁻ 18 + 13 = (R , 1 9 + 23 =		858.87	- 57.24 =		- 7.82
	20 + -15 = 52 -8 + -9 =		243.62	2 - 98.9 =		
(3)	Add or subtract these fractions	(7)	Multiplyin Example: 296	g large numbers x 3 = (300 x 3) - (4 x 3	using 'tio) = 900 - 12	dy' numbers. : = 888
	$\frac{1}{2} + \frac{1}{4} = $ $\frac{2}{3} + \frac{1}{4} = $		475 x 5 :	= (×)	- (_×)
	$\frac{5}{6} - \frac{1}{3} = $ $\frac{4}{5} - \frac{3}{10} = $:	:	= _	
(4)	Find the percentage of these numbers.	(8)	Dividing d	ecimals with rem	ainders.	
	50% of 250 = 20% of 140 =		6)56	. 1	9)5	.708
	66 ² / ₃ % of 120 = 75% of 240 =		4)8.	93	7)8	2.43
		1))	

- 21 -

This page MUST NOT be photocopied

2	5			Term:	Week:	AWS
(1)	Round these number	s to 2 decimal places .	(5)	Adding large	e numbers.	252
	4.637 =	3.715 =		3713 + 712 521 + 76 -	2 + 43 = + 424 =	63 10936
	20.109 =	9.1237 =		92 + 194 +	4474 =	+ 512
(2)	Write two smaller end for each fraction give	quivalent fractions	(6)	Subtracting 2836 -	large numbers = 15	5. 526 13359
	12	18			2068 = 7	<i>.</i> /94 -
	48	= = 54	-	21753	= 17	7096 6531
(3)	Find the percentage	of these decimals.	(7)	Multiplying	whole numbers.	290 x 32
	10% of 1.50 =	33 ¹ / ₃ % of 2.10 =		95	4	3
	40% of 21.80 =	90% of 3.60 =	_		- 5	
(4)	Convert these fract	ions to percentages	(8)	Dividing	ge numbers.	
	¹ / ₃ = ³ / ₂	5 = 2 10 =		2)576		5 1 7 2 5
	³ / ₁₀₀ = ³ /	/ ₄₀ = ⁷ / ₈ =		3)618	- /	4)2864
Copyrigh	t ©2007 AWS Publications Ltd					
						This page CANNOT be photocopied
2	6			Term:	Week:	This page CANNOT be photocopied
2 (1)	Solve these equation number answers.	ns with mixed	/* (5)	Term: Adding large	Week:	AWS 1765
2 (1)	6 Solve these enuation number answers. 7d - 19 = 71	ns with mixed	/* (5) •	Term: Adding large 164 + 18 +	• 2738 = + 74 =	AWS 1765 81 35223
2 (1)	5 Solve these equation number answers. 7d - 19 = 71 8k - 13 = 65	ns with mixed d =	(5)	Term: Adding large 164 + 18 + 553 + 71 + 942 +	• 2738 = + 74 =	AWS 1765 81 3412 + 1670
(1) (2)	5 Solve these equation number answers. 7d + 19 = 71 8k - 13 = 65 Add or subtract th	ns with mixed d = k = ese fractions	(5) (6)	Term: Adding large 464 + 18 + 553 + 71 + 942 + Subtracting	• 2738 = • 2738 = + 74 = • =	AWS 1765 81 3412 1670
(1) (2)	Solve these equation number answers. 7d + 19 = 71 8k - 13 = 65 Add or subtract the ⁵ /6 + 1/2 =	hs with mixed $d = \underline{\qquad}$ ese fractions $\frac{3}{4} + \frac{2}{5} = \frac{1}{5}$	(5)	Term: Adding large 464 + 18 + 553 + 71 + 942 + Subtracting 1289 -	Week: e numbers. 2738 =	AWS 1765 81 3412 + 462 1670 S.
(1) (2)	Solve these equation number answers. 7d + 19 = 71 8k - 13 = 65 Add or subtract the 5/6 + 1/3 = -	The set of	(5) (6)	Term: Adding large 464 + 18 + 553 + 71 + 942 + Subtracting 1289 - 13247 -	Veek: • 2738 = • 2738 = + 74 = • = 1 • large numbers 35 = 695 =	AWS 1765 81 3412 + 462 1670 S. 5487 642
(1) (2)	Solve these equation number answers. 7d + 19 = 71 8k - 13 = 65 Add or subtract the 5/6 + 1/3 = 7/9 - 1/3 =	The set of	(6) -	Term: Adding large 464 + 18 + 553 + 71 + 942 + Subtracting 1289 - 13247 - 23785 -	Week: e numbers. 2738 =	AWS 1765 81 35223 + 462 1670 5.
(1) (2) (3)	Solve these equation number answers. 7d + 19 = 71 8k - 13 = 65 Add or subtract the $5/6 + 7_3 = $ $7/9 - 7_3 = $ Add +, -, * or ÷ to m statement true. Re	hs with mixed $d = \underline{\qquad}$ ese fractions $\frac{3}{4} + \frac{2}{5} = \underline{\qquad}$ $\frac{4}{5} - \frac{2}{3} = \underline{\qquad}$ hake each member BEDMAS	(5) (6) (7)	Term: Adding large 464 + 18 + 553 + 71 + 942 + Subtracting 1289 - 13247 - 23785 - Multiplying Example: 231 × 3	Week: e numbers. 2738 =	AWS 1765 81 3412 1670 3. 5487 642 using place value. 3) + (1 × 3) = 600 + 90 + 3 = 693
(1) (2) (3)	Solve the se chucklor number answers. 7d + 19 = 71 8k - 13 = 65 Add or subtract the 5/6 + 1/3 = 7/9 - 1/3 = Add +, -, × or ÷ to m statement true. Re 5 - 6 - 13 = 43	This with mixed d = d = d = d = ese fractions $\frac{3}{4} + \frac{2}{5} = \frac{4}{5} - \frac{2}{3} =nake eachmember BEDMAS31 2 9 = 13$	(5) (6) (7)	Term: Adding large 464 + 18 + 553 + 71 + 942 + Subtracting 1289 - 13247 - 23785 - Multiplying Example: 231 × 2 384 × 4 = (Week: e numbers. 2738 =	AWS 1765 81 3412 1670 5. 5487 642 using place value. 3) + (1 × 3) = 600 + 90 + 3 = 693) + (×)
(1) (2) (3)	Solve these endation number answers. 7d + 19 = 71 8k - 13 = 65 Add or subtract the 5/6 + 1/3 = 7/9 - 1/3 = Add +, -, * or ÷ to m statement true. Re 5 - 6 - 13 = 43 9 - 7 - 4 = 37	This with mixed d =	(6) - - - - - - - - - - - - - - - - - - -	Term: Adding large $464 + 18 + 553 + \$ 71 + 942 + 323 Subtracting 1289 - 323785785 - 323785 - 323785 - 323785 - 323785 - 323	Week: e numbers. 2738 =	AWS 1765 81 3412 1670 5. 5. 5. 642 using place value. 3) + (1 × 3) = 600 + 90 + 3 = 693 ×) + (×) + =
2 (1) (2) (3) (4)	Solve these envalues number answers. 7d + 19 = 71 8k - 13 = 65 Add or subtract the $5/6 + \sqrt{3} =$ $7/9 - \sqrt{3} =$ Add +, -, × or ÷ to m statement true. Re 5 - 6 - 13 = 43 9 - 7 - 4 = 37 Convert these impromixed numbers.	hs with mixed $d = \underline{\qquad}$ ese fractions $\frac{3}{4} + \frac{2}{5} = \underline{\qquad}$ hake each member BEDMAG $31 _ 2 _ 9 = 13$ $56 _ 8 _ 9 = 16$ oper fractions to	(5) (6) (7) (8)	Term: Addin_ large $164 + 18 +$ $53 + \$	Week: e numbers. $2738 = 2738 = +74 = + 74 = 35 = 695 = 695 = 6321 = large numbers of the state of the $	This page CANNOT be photocopied AWS 1765 81 3412 35223 462 1670 -642 -642 using place value. -642 -642 $-20 + 9 = 29$ $-20 + 9 = 29$ $-20 + 9 = 29$
(1) (2) (3) (4)	5 Solve the secondation number answers. 7d + 19 = 71 8k - 13 = 65 Add or subtract the $5/6 + 7_3 =$ $7/9 - 7_3 =$ Add +, -, × or ÷ to m statement true. Re 5 - 6 - 13 = 43 9 - 7 - 4 = 37 Convert these impro- mixed numbers . $2^3/_6 =$	This with mixed d = ese fractions ${4/5} - \frac{2}{5} ={4/5} - \frac{2}{3} ={5/3} ={7/5}$ The maximum definition of the second state o	 (5) (6) (7) (8) 	Term: Adding large 464 + 18 + 533 + 71 + 942 + Subtracting 1289 13247 23785 Multiplying <i>Example:</i> $231 \times$ $384 \times 4 = ()$ Dividing large <i>Example:</i> $145 +$ $376 \div 4 = ()$	Week: e numbers. $2738 = \$	AWS 1765 81 3412 1765 81 35223 1670 5487 5487 5487 1765 81 35223 1765

2	7				Term:		Week:		AWS
(1)	What is the place	value of the	e BOLD digit and	(5)	Adding de	cimals.	·		291.8
	what does it mean				90.03 + 4	3.4 + 8.6	=		2.4
	8. 6 3 = =	2.10	4 ==		5.74 + 4	1 + 38.9 =			5341.0
	1.9 4 = = _	3 4.5	5 = =		91 + 1.90	6 + 54.3 =	:		+ 38.8
(2)	Round these numb	ers to 2 sig	nificant figures.	(6)	Subtracti	ng decim	als.		
	236900 =	3	8541 =		471.1		= 71	1.9	193.35
	0.0324 =	0.0	0709 =		642,17	46. -	.38 = 509 = 18	9.63 2.57	- 88.79
(3)	Complete these ra <i>Example:</i> The ratio 3:4 is	t ios. the same as 6:8.	and the	(7)	Multiplyin	decimal	s.		5.14 x 7 3
	4:5 =:	40 9: ₋	= 27:24		38.	2 4	7.2. _x 6	5	
	:42 = 5	:7 64	1:24 = 8:				S		
(4)	Write these stand Example: 520000 = 5.2 x	lard forms of 10 ⁵ 0.00014 = 1	as numbers . 1.4 × 10 ⁴	(8)	Dividing lo Example 195	a rge num = 5 = (200 ÷ 1	ers usin 5) - (5 ÷ 5) =	g 'tidy' 1 = 20 - 1 = 19	numbers.
	2.3 × 10 ⁴ =	1.82	× 10 ³ =		224 - 8 =	÷) -)
	6.4 × 10 ⁻⁵ =	4.38	× 10 ⁻² =				-	=	
Copyrigh	at \mathbb{O}_{2007} AWS Publications Ltd							This page (CANNOT be photocopied
2	8				Term:	0	Week:		AWS
(1)	Solve these equat	ions with mi	xed	(5)	Adding	cimals.			73.81
	7d - 19 = 102	, d=		'	72.96 + 5	8.3 + 59	=		0.35 462.08
	/ 4 1/ 1/ 102				69.75 +		+ 24 = 1	30.54	+ 5.97
	8k - 23 = 78	K=	6		59 + 4.4	+	= 8	1.31 -	
(2)	Write these numb Example: 520000 = 5.2 x	10 ³ 0.00014 =	ard form 1.4 × 10 ⁻⁴	(6)	Subtracti	ng decim	als.		
	61000 =	000	0034 =		326.2	- 19.4 = _			58.84
				-	587.27	- 58.84 =	·		- 7.28
	00.0792 =	5180	JOOD =	-	289.62	2 - 65.9 =			
(3)	A car is travelling How far will the co	at 90 kilome ar travel in .	etres per hour. 	(7)	Multiplyin Example: 296	g large n i × 3 = (300 ×	umbers L 3) - (4 × 3)	ising 'tic = 900 - 12	ly' numbers. = 888
	3 hours				386 x 5 =	(×) -	(×)
	5 hours		🔊 – 🌀		-		_	_	
					-	·			
(4)	convert these dec	cimais to tra	CTIONS.	(8)	Dividing d	ecimals.			
				1					
	0.5 = 0).48 =	0.05 =		3)1.9	98		4) 3	4.08
	0.5 = 0 0.75 = 0	0.48 = .66 [:] =	0.05 = 0.002 =	-	3)1.9 6)29	98		4) 3 7) 2	4.08

2	9		Term:	Week	:	AWS
(1)	Order of operations. BEDMAS	(5)	Adding la	rge numbers.		938
	45 + 84 ÷ 7 = 180 - 7 × 15 =		822 + 47	/65 + 34 =		12587
	$2 + 0 + 4^2 = $		34 + 482	2 + 3279 =		20
	3 × 9 + 4 ⁻ = 4(4 + 7 × 3) =		6149 + 8	31 + 916 =		+ 402
(2)	Complete these ratios. <i>Example:</i> The ratio 3:4 is the same as 6:8.	(6)	Subtracti	ng large number	'S. 7125	2050
	27:18 =:2 7: = 28:36		/203	=	/130	3959
			11127	=	8090	3798
(3)	Write these standard forms as numbers. Example: $520000 = 5.2 \times 10^5$ 0.00014 = 1.4×10^{-4}	(7)	Multiplyin	g whole number	S.	274 x 76
	5.6 × 10 ³ = 6.3 × 10 ⁵ =			- / / 8 x	9 -	
	8.1 × 10 ⁻⁴ = 9.05 × 10 ⁻³ =			5		
(4)	Convert these fractions to decimals.	(8)		nge numbers, so	ome with	remainders.
	1/2 = 2/5 = 5/3 = 5/3		6)47	4	8 5	7.9.2
0	2/3 =		7)55	3	9)8	439
Copyrig	n e ₂₀₀₇ AvvS Publications Ltd				This page	
3	0	•	Term:	Week		AWS
(1)	Write these numbers in standard form. Example: $520000 = 5.2 \times 10^5$ $0.00014 = 1.4 \times 10^4$	(5)	Adding lar	rge numbers.		949 3273
	45000600 = 0.0063 =		70 +	= + 3171	= 3901	60
	0.000592 = 674000 =		2389 + 5	8 +	= 3049 -	+ 541
(2)	Find the percentage of these decimals.	(6)	Subtracti	ng large number	°S.	
	50% of 7.2 = 33 ¹ / ₃ % of 12.9 =		1582	- 727 =		16325
	25% of 6.4 = 90% of 6.0 =		25073	8 - 902 =		- 945
			74075	- 8516 =		
(3)	Meat costs \$16.60 per clogram. How much would it cost to buy	(7)	Multiplyin Example: 231	g large numbers x 3 = (200 x 3) + (30 x	(using plo (3) + (1 × 3)	a ce value . = 600 + 90 + 3 = 693
	0.5 kas of meat		583 x 7 =	(x) +	(×	_) + (x)
	1.25 kgs of meat ?		=	+	_+:	=
(4)	Add +,-,×or÷to make each statement true. Remember BEDMAS	(8)	Dividing la Example: 145	a rge numbers us ÷ 5 = (100 ÷ 5) + (45 ÷	ing multiµ 5) = 20 + 9 =	oles of 10. 29
	6 7 9 = 51 80 5 4 = 60		954 ÷ 9 =	(÷)	+ (÷)
	17 32 4 = 25 22 8 3 = 46		=	+	=	
Copyrig	ht © ₂₀₀₇ AWS Publications Ltd - 2	24 -			This page M	IUST NOT be photocopied

	Practical / Ora	al Question	ns (Supply your	chilo	d with some pap	per)	Result (circle)
1	Skip counting in 4's, 6's, 7's, 8' sequence of at least the first 10 r	s and 9's, as nultiples for e	sk y each	our child to number.	reci	ite a forward a	nd backward	yes / no
2	Skip counting in 4's, 6's, 7's, 8' sequence of at least the first 10 r	s and 9's, as nultiples for e	sk y each	our child to number.	writ	te a forward an	d backward	yes / no
3	Write up to 10 3, 4, 5 or 6 digit d child to round each decimal to the	ecimal numb e nearest 1 d	ers I .p. a	with up to 3 c and 2 d.p.	ligit	s after the decir	nal point. Ask your	yes / no
4	Addition and subtraction numeracy facts. Tick each correct answer.	36 - 8 = 28 $7 + 31 = 38$ $32 - 5 = 27$ $19 + 7 = 26$ $30 - 6 = 24$ $15 + 6 = 21$ $24 - 7 = 17$ $2 + 24 = 26$ $30 - 9 = 21$ $15 + 8 = 23$ $23 - 6 = 17$ $4 + 25 = 29$ $32 - 6 = 26$ $14 + 7 = 21$ $18 - 2 = 16$ $8 + 16 = 24$		13 + 4 = 17 $29 - 8 = 21$ $28 + 2 = 30$ $21 - 9 = 12$ $4 + 18 = 22$ $32 - 8 = 24$ $44 + 1 = 45$ $24 - 2 = 22$ $8 + 17 = 25$ $25 - 7 = 18$ $2 + 37 = 39$ $22 + 37 = 39$ $22 + 3 = 19$ $16 + 6 = 22$ $37 - 2 = 35$ $19 + 6 = 25$ $21 - 7 = 14$		25 - 6 = 19 $9 + 14 = 23$ $23 - 2 = 21$ $31 + 3 = 34$ $25 - 2 = 23$ $7 + 15 = 22$ $26 - 7 = 19$ $5 + 35 = 40$ $37 - 6 = 31$ $17 - 6 = 23$ $48 - 9 = 39$ $3 + 23 = 26$ $44 - 8 = 36$ $6 + 18 = 24$ $28 - 3 = 25$ $8 + 18 = 26$	13 + 8 = 21 $36 - 5 = 31$ $12 + 9 = 21$ $41 - 8 = 33$ $7 + 17 = 24$ $31 - 6 = 25$ $49 + 9 = 58$ $43 - 8 = 35$ $34 + 4 = 38$ $23 - 4 = 19$ $9 + 19 = 28$ $29 - 6 = 23$ $9 + 13 = 22$ $38 - 9 = 29$ $23 + 7 = 30$ $44 - 6 = 38$	yes/no
5	 4x, 6x, 7x, 8x & 9: multiplication and division facts. Ask these facts one of several ways, as "What does 4 multiplied by 9 equal?" "What does 36 divided by 4 equal?" "What number multiplied by 4 gives you an answer of 36?" 	$5 \times 8 = 40$ $54 \div 6 = 9$ $4 \times 7 = 28$ 70 = 10 $8 \times 6 = 48$ $24 \div 8 = 3$ $7 \times 3 = 21$ $20 \div 4 = 6$ $10 \times 8 = 80$ $72 \div 9 = 8$ $4 \times 8 = 32$ $80 \div 8 = 10$ $7 \times 6 = 42$ $16 \div 4 = 4$ $9 \times 5 = 45$ $49 \div 7 = 7$		$4 \times 9 = 36$ $21 \div 7 = 3$ $3 \times 6 = 18$ $81 \div 9 = 9$ $7 \times 5 = 35$ $32 \div 4 = 8$ $2 \times 8 = 16$ $42 \div 6 = 7$ $4 \times 6 = 24$ $40 \div 8 = 5$ $5 \times 6 = 30$ $28 \div 4 = 7$ $7 \times 9 = 63$ $48 \div 6 = 8$ $2 \times 9 = 18$ $72 \div 8 = 9$		$7 \times 7 = 49$ $12 \div 4 = 3$ $8 \times 9 = 72$ $40 \div 4 = 10$ $4 \times 4 = 16$ $14 \div 7 = 2$ $9 \times 6 = 54$ $36 \div 6 = 6$ $7 \times 10 = 70$ $60 \div 6 = 10$ $3 \times 8 = 24$ $56 \div 7 = 8$ $4 \times 5 = 20$ $64 \div 8 = 8$ $4 \times 9 = 36$ $63 \div 9 = 7$	$10 \times 6 = 60$ $16 \div 8 = 2$ $7 \times 8 = 56$ $24 \div 4 = 6$ $8 \times 8 = 64$ $30 \div 6 = 5$ $9 \times 3 = 27$ $63 \div 7 = 9$ $10 \times 4 = 40$ $54 \div 9 = 6$ $7 \times 2 = 14$ $18 \div 6 = 3$ $6 \times 6 = 36$ $35 \div 7 = 5$ $4 \times 3 = 12$ $36 \div 4 = 9$	yes / no
Copyright @	Number	Knowled	dge	e - the ke	y t	o success	It is illecal to pho	ptocopy this page

3	1		Term:	Week	:	AWS
(1)	Add and subtract these integers.	(5)	Adding de	ecimals.		0.25
	⁻ 21 + 17 = ⁻ 18 - 14 =		80.09 + 6	.8 + 293.3 =		317.15
	22 -45 -44 -22		9.31 + 382	2.94 + 62.7 =		0.57
	32 - 15 = 41 - 29 =		5.785 + 4	.20 + 16.67 =		+ 68.80
(2)	Estimate an answer by rounding the \$\$\$ first.	(6)	Subtracti	i ng decimals.	-	
	\$8.90 × 5 = \$7.25 × 9 =		468.8	= 3	395.9	627.5
	\$48.60 ÷ 7 = \$63.80 ÷ 8 =			386.2 = 1	78.67	- 547.0
			3926.7 -	= 3	576.91	507.9
(3)	Find the square root of these numbers.	(7)	Multiplyin	g decimals.	*	38.5
	√49 = √144 =			3 94	1	× 4.9
	√225 = √400 =		x		8 -	
					<u> </u>	
(4)	Convert these decimals to fractions.	(3)	Dividing lo Exan p le: 195	* 5 = (200 ÷ 5) - (5 ÷ 5	ing 'tidy' 5) = 20 - 1 = 1	numbers.
	0.25 = 0.6 = 0.05		882 ÷ 9 =	(÷)	-	÷)
	0.9 = 0.3' = 1.5 =		-		=	
Copyrig	ht © ₂₀₀₇ AWS Publications Ltd				This page	CANNOT be photocopied
3	2		Term:	Week	:	AWS
(1)	Order of operations. BEDMAS	(5)	Adding de	cimals.		8.81
	25 + 108 ÷ 9 = 81 - 7 × 8 =		387. 5 + 2.	.64 + 62.1 =		0.57
	$5 \times 6 + 4^2 = 3(10 + 5 \times 6) =$		<mark>8</mark> 9.34 +	+ 2.15 =	675.09	+ 3.90
			144.5 + 68	5.69 + =	233.47 -	
(2)	Find the square or powers of these numbers	(6)	Subtracti	i ng decimals.		
	$9^2 =$		402.8	8 - 48.4 =		595.06
	$10^3 = $ 5 ⁴ =		247.7	0 - 66.32 =		- 48.85
			2637.7	′3 - 465.8 =		
(3)	Convert these percentages to fractions.	(7)	Multiplyin Example: 296	g large numbers × 3 = (300 × 3) - (4 ×	using 't io 3) = 900 - 12	dy' numbers. = 888
	75% = 40% = 37% =		596 x 6 =	(×`) - (×)
	$66\frac{2}{3}\%$ = 125% = 6% =		=		=	
(4)	Round these numbers to 1 decimal place.	(8)	Dividing d	ecimals.		
	4.96 = 7.21 =		6)4.	4 4	7)3	.136
	12.739 = 32.847 =		8 1		9)2	8 6 2
Copyrig	ht © ₂₀₀₇ AWS Publications Ltd	26 -	0) + 1	. •	This page N	UST NOT be photocopied

3	3		Term:	Week	:	AWS
(1)	Convert these mixed numbers to	(5)	Adding lar	rge numbers.		570
		2	347 + 11	.29 + 53 =		67
	2°/5 = 6°/9 =		30 + 998	8 + 2745 =		2900 + 315
	$7^{5}/_{8} = $ $9^{2}/_{3} = $		1426 + 7	0 + 298 =		010
(2)	Find each fraction of these decimals.	(6)	Subtracti	ng large number	rs.	
	² / ₃ of 1.2 = ⁵ / ₈ of 41.6 =		2896	=	2032	3857
	³ / ₄ of 2.4 = ³ / ₇ of 23.8 =		6353	538 = 4 = 1	149 3928	- 2461
(3)	Round these numbers to 1 significant figure.	(7)	Multiplyi	g whole number	s.	583
	63500 = 946 =		9?	5 63	23 –	x 67
	0.087 = 0.00639 =		×	4X	9	
(4)	Convert these decimals to percentages.	(8)	Dividing lo	arge numbers.		0
	0.67 = 0.3' = 0.95		9 3 5	1	6)3	1 6 2
	0.75 = 0.05 = 1.2		6 0	8	7)4	613
Copyrig	ht ©2007 AWS Publications Ltd				This page	CANNOT be photocopied
3	4		Term:	Week	:	AWS
(1)	Round these numbers to 2 decimal places.	(5)	Adding	rge numbers.		357
	0.327 = 0.063 9 =		412 + 13	54 + 82 =		3168
	30 109 - 140 275 -		98 +	+ 1367	= 1672	28 + 514
	30.109 140.270		2345 + 8	2 +	= 2613 -	+ 514
(2)	Find the percentage of these decimals.	(6)	Subtracti	ng large number	°S.	
	$10\% \text{ of } 6.8 = 33\frac{1}{2}\% \text{ of } 15.6 =$		4037	- 387 =		42000
	25% of $4.96 = 5%$ of $8.4 =$		5903	- 917 =		- 864
			10283	8 - 827 =		
(3)	Add or subtract these fractions	(7)	Multiplyin Example: 231	g large numbers × 3 = (200 × 3) + (30 ±	s using plo < 3) + (1 × 3)	ace value. = 600 + 90 + 3 = 693
	$\frac{1}{2} + \frac{3}{4} = \underline{\qquad} \frac{2}{3} + \frac{5}{6} = \underline{\qquad}$		756 x 7 =	(x) +	(×	_) + (x)
	$^{2}/_{3} - ^{1}/_{6} = $ $^{7}/_{8} - ^{1}/_{4} = $		=	+	_+	=
(4)	Convert these fractions to decimals.	(8)	Dividing la <i>Example:</i> 145	arge numbers us ÷ 5 = (100 ÷ 5) + (45 ÷	i ng multi 5) = 20 + 9 =	ples of 10.
	$^{2}/_{5} = $ $^{3}/_{4} = $ $^{7}/_{8} = $ $^{7}/_{8} = $		1664 ÷ 8 ÷	= (÷	_) + (_ ÷)
	$^{2}/_{5} = $ $^{3}/_{4} = $ $^{7}/_{8} = $ $^{1}/_{20} = $ $^{9}/_{10} = $ $^{3}/_{2} = $ $^{1}/_{20} = $		1664 ÷ 8 ÷	= (÷ =+	_) + (_ ÷)

3	5		Term:	١	Week:		AWS
(1)	Solve these equations with mixed	(5)	Adding de	ecimals.			9.5
			30.84 + 5	56.73 + 9.	.2 =		4133.5
	4(a + 7) = 53 a =		293.29 +	6.1 + 74.5	8 =		+ 621.1
	5(k - 6) = 19 k =		4.1 + 39.6	6 + 628.7 :	=		
(2)	Add and subtract these integers.	(6)	Subtracti	i ng decima	als.		
	⁻ 45 + 62 = ⁻ 34 - 18 =		271.34	-	= 1	87.84	496.13
	2517			21.	53 = 45	57.20	- 443.49
	25 - 17 45 - 27		1788.4	-	= 1	25.87	110.17
(3)	Find the percentage of these decimals.	(7)	Multiplyin	g decimals		*	41.7
	50% of 1.7 = 5% of 6.4 =		~ 7 3.	6	9.0	3	x 6.9
	66 ² / ₃ % of 5.4 = 80% of 3.5 =		x	5	×	8-	
(4)	Convert these percentages to decimals.	(3)	Dividing Example: 195	+ 5 = (200 ÷ 5	ers usir i) - (5 ÷ 5)	ng 'tidy' = 20 - 1 = 1	numbers.
	65% = 8% = 37%		672÷7=	(÷) -		÷)
	$80\% = $ $33\frac{1}{3}\% = $ $150\% = $						
Copyrigh	It ©2007 AWS Publications Ltd				$\mathbf{\nabla}$	This page	CANNOT be photocopied
3	6		Term:		Week:		AWS
(1)	A carris travelling at 90 kilometres per nour.	(5)	Adding de	cimals.			341.9
	How far will the car travel in		24.6 + 317	7.2 + 3.65	=		32.9
	7 hours		144.5 +	+	2.75 =	157.67	5150.8
	2.25 hours ?		6.89 + 49.	3 +	= 3	302.54 -	+ 21.1
(2)	Write two smaller equivalent fractions	(6)	Subtracti	i ng decima	als.	-	
~~/	for each fraction given.		159.45	5 - 6.27 =			159.83
	24 32		75.782	2 - 2.36 =			- 86.96
	48 72 7		942.0 -	- 474.23 =	:		
(3)	Add +, -, × or ÷ to make each statement true. Remember BEDMAS	(7)	Multiplyin Example: 296	g large nu x 3 = (300 x 3	1 mbers 3) - (4 × 3	using 't io) = 900 - 12	dy' numbers. = 888
	6 <u>3</u> <u>11 = 29</u> <u>45 7 4 = 17</u>		585 x 8 =	= (×)	- (_ ×)
	36 6 4 = 12 21 56 8 = 14		:	=		=	
(4)	Convert these improper fractions to mixed numbers	(8)	Dividing d	ecimals.			
	⁴⁵ / ₆ = ⁵⁰ / ₇ =		4)3.	32		7)5	1.03
	³⁹ / ₉ = ⁶³ / ₈ =		9)81	. 9		8)6	23.2
Copyrigh	t ©2007 AWS Publications Ltd)			ر This page N	UST NOT be photocopied

3	7		Term:		Week:		A	ws	
(1)	Solve these equations with mixed	(5)	Adding lar	rge numb	oers.			5852	2
	number answers.		1732 + 4	2 + 953	=			770)
	8(d + 4) = 71 d =		397 + 58	390 + 49	=			36 510))
	7(k - 9) = 29 k =		31 + 389) + 6702	=		+	519	
(2)	Add or subtract these fractions	(6)	Subtracti	ng large	numbers	3 .			
	${}^{3}/_{4} + {}^{3}/_{4} = _$ ${}^{2}/_{3} + {}^{4}/_{5} = _$		6892 -		= 20	060		6347	7
	7, 1, 3, 2,				897 = 91	44	-		
	$\frac{7}{8} - \frac{1}{4} = \underline{\qquad} \frac{3}{4} - \frac{2}{3} = \underline{\qquad}$		7347 -		= 23	389		1422	2
(3)	Complete these ratios.	(7)	Multiplyin	g whole	numbers.			608	3
	5:8 =:32 14: = 7:9		82	9	47	5 –		x 37	
	:3 = 18:6 9:5 = 54:		×	4	x	6			
	10 = 1010 910 = 011								
(4)	Write these standard forms as numbers.	(8)	Dividing la	arge num	ers with	h remair	nders.	0	
	$1.2 \times 10^4 = $ $5.7 \times 10^5 = $		3 4 8	7		6)2	387	_	
	$3.4 \times 10^{-3} = $ 6.5 10 ² =		5 7 8	4		8)9	217		
Copyrig	ht ©2007 AWS Publications Ltd					This page	CANNOT be	e photocop	bied
3	8		Term:	0	Week:		A	WS	
3 ⑴	8 Order of operations.	(5)	Term: Adding la	rge numt	Week:		A	WS 953	8
3 (1)	8 Order of operations. BEDMAS 7 + 24 = 6 - 9 = - 4 - 5 - 28 = - = = = =	(5)	Term: Adding lar 21 - 348	rge numt 34 + 245	Week: bers.		A	953 4852	3
3 (1)	8 Order of operations. BEDMAS 7 + 24 = 6 - 9 = 4 + 5 - 28 =	(5)	Term: Adding lor 21 + 348 1876 + _	rge numb 34 + 245	Veek: pers. =+ 93 =	2127	A	953 4852 73	3
3 (1)	8 Order of operations. 7 + 24 + 6 - 9 = - 4 + 5 - 28 + - =	(5)	Term: Adding lar 21 - 348 1876 + 254 + 83	rge numb 34 + 245 3 +	Veek: 	2127 3162	+	953 4852 73 611	 2 3 1
(1) (2)	Order of operations. DEDMAS $7 + 24 + 6 - 9 = _$ $4 \times 5 - 28 \div 7 = _$ $9^2 - 5 \times 6 + 7 = _$ $3(4 + 27 \div 9) = _$ Round these numbers to 2 significant figures	(5)	Term: Adding lat 21 + 348 1876 + 254 + 83 Subtracti	rge numb 34 + 245 3 + ng large	Week: = + 93 = =	2127 3162 - 5.	+	953 4852 73 611	 2 } L
(1)	8 Order of operations. DEDMAS $7 + 24 + 6 - 9 = \$	(5)	Term: Adding lat 21 + 348 1876 + 254 + 83 Subtracti 5720	rge numb 34 + 245 3 + ng large - 773 =	Veek: = + 93 = = numbers	2127 3162 -	+	953 4852 73 611	3 2 3 1
(1)	8 Order of operations. DEDMAS $7 + 24 + 6 - 9 = \$	(5)	Term: Adding lat 21 + 348 1876 + 254 + 83 Subtracti 5720 7309	rge numb 34 + 245 3 + ng large - 773 = - 719 = _	<pre>veek: oers. = + 93 = = numbers</pre>	2127 3162 - 3.	+	953 4852 73 611 27000 - 795	 2 3 1
(1)	8 Order of operations. DEDMAS $7 + 24 = 6 - 9 = \$	(5)	Term: Adding land 21 + 348 1876 + 254 + 83 Subtracti 5720 7309 13493	nge numb 34 + 245 3 + ng large - 773 = - 719 = 3 - 839 =	<pre>veek: oers. = + 93 = = numbers</pre>	2127 3162 -	+	953 4852 73 611 27000 - 795	
(1) (2) (3)	B Order of operations. DEDMAS $7 + 24 + 6 - 9 = _$ $4 \times 5 - 28 \div 7 = _$ $9^2 - 5 \times 6 + 7 = _$ $3(4 + 27 \div 9) = _$ Round these numbers to 2 significant figures. $452000 = _$ $95190 = _$ $0.00637 = _$ $0.1034 = _$ A car is travelling at 80 ki ometres per hour. How far will the car travel in	(5) (6) (7)	Term: Adding lat 21 + 348 1876 + 254 + 83 Subtracti 5720 7309 13493 Multiplyin Example: 231	nge numb 34 + 245 3 + ng large - 773 = - 719 = - 839 = g large r × 3 = (200	<pre>veek: pers. =</pre>	2127 3162 - - 	+ +	953 4852 73 611 27000 - 795 Je. 0+3=65	2 2 3 1 2 3 1 2 5 5
3 (1) (2) (3)	Below Below <t< td=""><td>(5) (6) (7)</td><td>Term: Adding los 21 - 348 1876 + 254 + 83 Subtracti 5720 7309 13493 Multiplyin Example: 231 279 × 9 -</td><td>rge numb 34 + 245 3 + 773 = - 773 = - 719 = 3 - 839 = g large r × 3 = (200</td><td><pre>veek: pers. =</pre></td><td>2127 3162 - 3. </td><td>+ + ace valu = 600 + 90</td><td>953 4852 73 611 27000 - 795 Je. 0+3=69</td><td>2 2 3 1 2 3 1 2 3 3 1 2 3 3 3 3 3 3</td></t<>	(5) (6) (7)	Term: Adding los 21 - 348 1876 + 254 + 83 Subtracti 5720 7309 13493 Multiplyin Example: 231 279 × 9 -	rge numb 34 + 245 3 + 773 = - 773 = - 719 = 3 - 839 = g large r × 3 = (200	<pre>veek: pers. =</pre>	2127 3162 - 3. 	+ + ace valu = 600 + 90	953 4852 73 611 27000 - 795 Je. 0+3=69	2 2 3 1 2 3 1 2 3 3 1 2 3 3 3 3 3 3
3 (1) (2) (3)	Second state Second state $7 + 24 = 6 - 9 = $ $4 - 5 - 28 = 7 = $ $9^2 - 5 \times 6 + 7 = $ $3(4 + 27 \div 9) = $ Round these numbers to 2 significant figures: $452000 = $ $95190 = $ $0.00637 = $ $0.1034 = $ A car is travelling at 80 k lometres per hour. How far will the car travel in $5 hours$ $4.5 hours$	(5)	Term: Adding 107 21 - 348 1876 + 254 + 83 Subtracti 5720 7309 13493 Multiplyin Example: 231 279 x 9 =	nge numb 34 + 245 3 + ng large - 773 = - 719 = 3 - 839 = g large r × 3 = (200) ()	<pre>veek: pers. =</pre>	2127 3162 -	+ + ace valu = 600 + 90 _) + ()	953 4852 73 611 27000 - 795 Je. 0+3=65)
3 (1) (2) (3)	Order of operations. DEDMAS $7 + 24 = 6 - 9 = 4 + 5 - 28 + 7 = 1$ $9^2 - 5 \times 6 + 7 = 1$ $3(4 + 27 + 9) = 1$ $9^2 - 5 \times 6 + 7 = 2$ $3(4 + 27 + 9) = 1$ $3(4 + 27 + 9) = 1$ Round these numbers to 2 significant figures: $45 - 28 + 7 = 2$ $3(4 + 27 + 9) = 1$ Output $45 - 28 + 7 = 2$ $3(4 + 27 + 9) = 1$ Nound these numbers to 2 significant figures: $45 - 200 = 2$ $95190 = 2$ $0.006 - 7 = 2$ $0.1034 = 2$ Output Output Output Output A car is travelling at 80 k lometres per hour. How far will the car travel in Shours 4.5 hours 3.75 hours	(5)	Term: Adding (2) 21 - 348 1876 + 254 + 83 Subtracti 5720 7309 13493 Multiplyin Example: 231 279 × 9 = =	nge numb 34 + 245 3 + ng large - 773 = - 719 = 3 - 839 = g large r × 3 = (200) (>	<pre>veek: </pre>	2127 3162 - 3. 	+ + ace valu = 600 + 90 _) + (953 4852 73 611 27000 - 795 Je. 0+3=65 _ X	2 2 3 1 2 5
 (1) (2) (3) (4) 	Order of operations. Defends $f = 1$ $7 + 24 + 6 + 9 = 1$ $4 \times 5 - 28 = 7 = 1$ $9^2 - 5 \times 6 + 7 = 1$ $3(4 + 27 + 9) = 1$ Round these numbers to 2 significant figures: $45 \cdot 000 = 1$ $95190 = 1$ $0.006 = 7 = 1$ 0.1034 A car is travelling at 80 klometres per hour. How far will the car travel in $5 + 100 = 1$ $5 + 100 = 1$ $100 = 1$ $3.75 + 100 = 1$ $100 = 1$ Supression 1000 = 1000 = 1000 = 1000 = 10000 = 10000 = 10000 = 10000 = 100000000	(5) (6) (7) (8)	Term: Adding (2) 21 - 348 1876 + 254 + 83 Subtracti 5720 7309 13493 Multiplyin Example: 231 279 × 9 = = Dividing la Example: 145	rge numt 34 + 245 3 + ng large - 773 = - 719 = 3 - 839 = g large r x 3 = (200) () arge num ÷ 5 = (100 ÷	<pre>veek: pers. =</pre>	2127 3162 - 3. 	+ + 	953 4852 73 611 27000 - 795 Je. 0+3=65 _ × 10.) 3 2 3 1
 (1) (2) (3) (4) 	Order of operations. Defends $7 + 24 - 6 - 9 = 4 + 58 = 4$ $7 + 24 - 6 + 9 = 4 + 58 = 4$ $9^2 - 5 \times 6 + 7 = 2$ $3(4 + 27 + 9) = 4$ Round these numbers to 2 significant figures. $45 - 200 = 2$ $95100 = 2$ $0.00637 = 200.0134 = 2$ A car is travelling at 80 klometres per hour. How far will the car travel in $5 hours$ $4.5 hours$ $3.75 hours$ Convert these fractions to percentages. $3/4 = 2/3 = 2/3 = 2/5 = 2$	(5) (6) (8)	Term: Adding a 21 348 1876 + 254 + 83 Subtracti 5720 7309 13493 Multiplyin Example: 231 279 × 9 = = Dividing lac Example: 145 927 ÷ 9 = =	rge numb 34 + 245 3 + ng large - 773 = - 719 = 3 - 839 = g large r × 3 = (200) () arge num ÷ 5 = (100 ÷ ()	<pre>veek: pers. =</pre>	2127 3162 - 3. 	++ 	953 4852 73 611 27000 - 795 Je. 0+3=69 _ X 10.	2 3 1
 (1) (2) (3) (4) 	Order of operations. DEDMAS $7 + 24 + 6 + 9 = $ $4 + 5 - 28 + 4 = $ $9^2 - 5 \times 6 + 7 = $ $3(4 + 27 + 9) = $ Between uncers to 2 significant figures. $9^2 - 5 \times 6 + 7 = $ $3(4 + 27 + 9) = $ Round there numbers to 2 significant figures. $452000 = $ $95100 = $ $0.00607 = $ 0.1034 A car is travelling at 80 klometres per hour. How far will the car travel in 5 hours 3.75 hours 3.75 hours $3/4 = $ $2/3 = $ $2/5 = $ $3/4 = $ $2/3 = $ $2/5 = $	(5) (6) (8)	Term: Adding a 21 348 1876 + 254 + 83 Subtracti 5720 7309 13493 Multiplyin 279 × 9 = $z79 \times 9 =$ = Dividing lac Example: 145 927 ÷ 9 = =	rge numb 34 + 245 3 + ng large - 773 = - 719 = 3 - 839 = g large r × 3 = (200 + () arge num ÷ 5 = (100 + ()	<pre>veek: pers. =</pre>	2127 3162 - 3. 	++ 	953 4852 73 611 27000 - 795 Je. 0+3=69 _ X 10.	2 3 1 2 3 1 2 5 2 5 2 5 2 5 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3 3 2 3

3	9		Term:	Week	:	AWS
(1)	Add or subtract these fractions	(5)	Adding de	cimals.		53.31
	$3^{1}/_{4} + 4^{2}/_{3} = $ $5^{1}/_{2} + 2^{3}/_{4} = $		5.4 + 67.3	38 + 305.92 = _		2.10
	414 74 214 424		47.85 + 2	39.61 + 2.9 = _		533.14
	$1^{7}/_{4} - 7^{7}/_{8} = 3^{7}/_{2} - 1^{7}/_{3} = $		167.6 +	2.8 + 49.3 =		+ 15.96
(2)	Write these numbers in standard form.	(6)	Subtracti	ng decimals.		
	960000 = 0.0072 =		943.43	=	781.48	849.13
	0 0051 - 14500000 -			35.12 = 6	634.92	-
	0.0001 14000000		2398.3	=	626.78	344.49
(3)	Write these standard forms as numbers.	(7)	Multiplyin	decimals.		7.45
	2.3 × 10 ³ = 9.3 × 10 ⁴ =		78.0	63	.4 _	→ x 9.2
	1.4 × 10 ⁻⁴ = 5.2 × 10 ⁻² =		x !	5X	: 8 –	
(4)	Add +, -, × or ÷ to make each statement true. Remember BED WAS	(3)	Dividing Example: 195	rge numbers us + 5 = (200 ÷ 5) - (5 ÷ !	5) = 20 - 1 = 1	numbers. ?
	32 8 16 = 20 7 8 9 = 65		368 ÷ 8 =	(÷))-(÷)
	16 4 5 = 36 7 6 4 9 = 6		.		=	
Copyrig	nt ©2007 AWS Publications Ltd				This page	CANNOT be photocopied
4	0		Term:	Week	:	AWS
(1)	Write these numbers in standard form.	(5)	Adding de	cimals.		47.8
	36000 0.00459=		42.6 + 330	6.2 + 1.75 =		5137.7
	0.000148 = 7000,000 =		415.4 + <u> </u>	+ 7.25 =	721.76	1.5
			3.83 + 44.	9 + =	203.45 -	
(2)	Complete these ratios.	(6)	Subtracti			
			000110011	ng decimals.		
	56:24 =:3 63: = 7:5		537.41	ng decimals. - 8.25 =		3774.1
	56:24 =:3 63: = 7:5 :45 = 4:9 48:36 = 4:		537.41 92.316	ng decimals. - 8.25 = - 6.74 =		3774.1 - 585.7
	56:24 =:3 63: = 7:5 :45 = 4:9 48:36 = 4:		537.41 92.316 675.00	ng decimals. - 8.25 = - 6.74 = - 213.64 =		3774.1 - 585.7
(3)	56:24 =:3 63: = 7:5 :45 = 4:9 48:36 = 4: Meat costs \$18.60 per cologram.	(7)	537.41 92.316 675.00	ng decimals. - 8.25 = - 6.74 = - 213.64 = g large number:	s using 'tig	3774.1 - 585.7 Jy' numbers.
(3)	56:24 =:3 63: = 7:5 :45 = 4:9 48:36 = 4: Meat costs \$18.60 per clogram. How much would it cost to buy 2 kas of meat	(7)	537.41 92.316 675.00 Multiplyin <i>Example:</i> 296	ng decimals. - 8.25 = - 6.74 = - 213.64 = g large numbers × 3 = (300 × 3) - (4 ×	s using 'tio 3) = 900 - 12	3774.1 - 585.7 dy' numbers. = 888
(3)	50:24 =:3 63: = 7:5 :45 = 4:9 48:36 = 4: Meat costs \$18.60 per clogram. How much would it cost to buy 2 kgs of meat 0.5 kgs of meat	(7)	537.41 92.316 675.00 Multiplyin <i>Example:</i> 296 586 x 6 =	ng decimals. - 8.25 = - 6.74 = - 213.64 = g large number: × 3 = (300 × 3) - (4 ×	s using 'tio 3) = 900 - 12 _) - (3774.1 - 585.7 dy' numbers. = 888 . ×)
(3)	50:24 =:3 03: = 7:5 :45 = 4:9 43:36 = 4: Meat costs \$18.60 per clogram. How much would it cost to buy 2 kgs of meat 0.5 kgs of meat 1.25 kgs of meat	(7)	537.41 92.316 675.00 Multiplyin Example: 296 586 x 6 =	ng decimals. - 8.25 = - 6.74 = - 213.64 = g large number: x 3 = (300 × 3) - (4 × (×	s using 'tio 3) = 900 - 12 _) - (3774.1 <u>- 585.7</u> dy' numbers. = 888 <u>- ×</u>)
(3) (4)	50:24 =:3 3: = 7:5 :45 = 4:9 48:36 = 4: Meat costs \$18.60 per vlogram. How much would it cost to buy 2 kgs of meat 0.5 kgs of meat 1.25 kgs of meat 2 Convert these fractions to decimals.	(7)	537.41 92.316 675.00 Multiplyin Example: 296 586 x 6 = = Dividing de	ng decimals. - 8.25 = - 6.74 = - 213.64 = g large numbers × 3 = (300 × 3) - (4 × (× ecimals.	s using 'tic 3) = 900 - 12 _) - (3774.1 <u>- 585.7</u> dy' numbers. = 888 _ x)
(3)	5 5 5 2 4 = : 3 6 3 : = 7 : 5 : 45 = 4 : 9 48 36 = 4 : Meat costs \$18.60 per alogram. How much would it cost to buy 2 kgs of meat 0.5 kgs of meat 1.25 kgs of meat? Convert these fractions to decimals. $2^{\prime}/_{3} = \{3/5} = \{5/100} = \$	(7)	537.41 92.316 675.00 Multiplyin <i>Example:</i> 296 586 x 6 = = Dividing de 4)3.4	ng decimals. - 8.25 = - 6.74 = - 213.64 = g large numbers x 3 = (300 × 3) - (4 × (× ecimals. 3 4	s using 'tic 3) = 900 - 12 _) - (= 7) 5	3774.1 <u>- 585.7</u> dy' numbers. = ⁸⁸⁸ <u>- ×)</u> <u> </u>
(3)	5 5 5 2 4 =: 3 5 3: = 7:5 : 45 = 4:9 40 30 = 4: Meat costs \$18.60 per clogram. How much would it cost to buy 2 kgs of meat 0.5 kgs of meat 1.25 kgs of meat? Convert these fractions to decimals. $2^{\prime}_{3} = \frac{3^{\prime}_{5}}{3} = \frac{5^{\prime}_{100}}{3} = \frac{5^{\prime}_{4}}{3} = \frac{5^{\prime}_{4}}{3}$	(7)	537.41 92.316 675.00 Multiplyin <i>Example:</i> 296 586 x 6 = Dividing do 4)3.8 5)8 9	ng decimals. - 8.25 = - 6.74 = - 213.64 = g large numbers × 3 = (300 × 3) - (4 × (× c ecimals. 3 4 5	s using 'tic 3) = 900 - 12 _) - (7) 5 9) 5	3774.1 <u>- 585.7</u> dy' numbers. = 888 <u>- ×)</u> 9 . 2 2 . 1 4 8

	Practical / Oral Questions (Supply your child with some paper)									
1	Skip counting in 4's, 6's, 7's, 8's and 9's, ask your child to recite a forward and backward sequence of at least the first 10 multiples for each number.									
2	Skip counting in 4's, 6's, 7's, 8's and 9's, ask your child to write a forward and backward sequence of at least the first 10 multiples for each number.									
3	Write up to 10 3, 4, 5 or 6 digit decimal numbers with up to 3 digits after the decimal point. Ask your child to round each decimal to the nearest 1 d.p. and 2 d.p.									
4	Addition and subtraction numeracy facts. Tick each correct answer.	\checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark $5 + 35 = 40$ $43 \cdot 8 = 35$ $2 + 24 = 26$ $24 \cdot 2 = 22$ $37 \cdot 6 = 31$ $34 + 4 = 38$ $30 \cdot 9 = 21$ $8 + 17 = 25$ $17 + 6 = 23$ $23 \cdot 4 = 19$ $5 + 8 = 23$ $25 \cdot 7 = 18$ $48 \cdot 9 = 39$ $9 + 38 = 48$ $23 \cdot 6 = 17$ $2 + 37 = 39$ $3 + 23 = 26$ $29 \cdot 6 = 23$ $4 + 25 = 29$ $22 \cdot 3 = 19$ $44 \cdot 8 = 36$ $6 \div 13 = 22$ $32 \cdot 6 = 26$ $16 \cdot 6 = 22$ $6 + 18 = 24$ $38 \cdot 9 = 29$ $14 + 7 = 21$ $37 \cdot 2 = 35$ $28 \cdot 3 = 25$ $23 + 7 = 30$ $18 \cdot 2 = 6$ $19 + 6 = 25$ $8 + 18 = 20$ $44 \cdot 6 = 38$ $8 + 16 = 24$ $21 \cdot 7 = 14$ $25 \cdot 6 = 19$ $13 + 8 = 21$ $36 \cdot 8 = 28$ $13 + 4 = 17$ $9 \div 14 = 23$ $36 \cdot 5 = 31$ $7 + 31 = 38$ $29 \cdot 2 = 21$ $23 \cdot 2 = 21$ $12 \cdot 9 = 21$ $32 \cdot 5 = 27$ $28 \div 2 = 30$ $31 + 3 = 34$ $41 \cdot 8 = 33$ $19 + 7 = 26$ $21 \cdot 9 = 12$ $25 \cdot 2 = 23$ $7 + 17 = 24$ $30 \cdot 6 = 24$ $4 + 18 = 22$ $7 + 15 = 22$ $31 \cdot 6 = 25$ $5 + 6 = 21$ $32 \cdot 8 = 24$ $26 \cdot 7 = 19$ $19 + 9 = 28$ $24 \cdot 7 = 17$ $44 + 1 = 45$	yes / no							
5	 4x, 6x, 7x, 8x & 9x multiplication and division facts. Ask these facts one of several ways, as "What does 4 multiplied by 9 equal?" "What does 36 divided by 4 equal?" "What number multiplied by 4 gives you an answer of 36?" 	\checkmark \checkmark \checkmark \checkmark \checkmark \checkmark \checkmark 10 x 6 = 604 x 9 = 365 x 8 = 407 x 7 = 4916 \div 8 = 23 x 6 = 1854 \div 6 = 912 \div 4 = 37 x 8 = 563 x 6 = 184 x 7 = 288 x 9 = 7224 4 = 681 \div 9 = 970 \div 7 = 1040 \div 4 = 108 x 8 = 647 x 5 = 358 x 6 = 484 x 4 = 160 \div 6 = 532 \div 4 = 824 \div 8 = 314 \div 7 = 29 x 3 = 272 x 8 = 167 x 3 = 219 x 6 = 5463 \div 7 = 942 \div 6 = 720 \div 4 = 636 \div 6 = 610 x 4 = 404 x 6 = 2410 x 8 = 807 x 10 = 7072 \div 9 = 840 \div 8 = 554 \div 9 = 660 \div 6 = 107 x 2 = 145 x 6 = 304 x 8 = 323 x 8 = 2418 \div 6 = 328 \div 4 = 772 \div 8 = 956 \div 7 = 86 x 6 = 367 x 9 = 637 x 6 = 424 x 5 = 2035 \div 7 = 548 \div 6 = 816 \div 4 = 464 \div 8 = 84 x 3 = 122 x 9 = 189 x 5 = 454 x 9 = 3636 \div 4 = 980 \div 8 = 1049 \div 7 = 763 \div 9 = 7	yes / no							
Copyright @		Knowledge - the key to success!	otocopy this page							



Curriculum Strand Worksheets Section

(Level 5)

Number & Algebra,

Measurement & Geometry,

and Statistics

Worksheets

to be completed in conjunction with

Record your selection in the table at the front of this resource.

1		Revision				Term:		Week:		AWS
The p	olace	e a digit has in	a number will aff	ect it's value.	Prin	ne numbers	multiple	es and fo	actors ar	e
Exam	ole:	In 57.92, the	e 9 has a place valu	e	all s	pecial types	s of numb	oers.		STAN .
What	is t	he place value	of the BOLD dia	it in each	Use ·	the words in	n the bo>	k to fill i	in the mi	ssing words in
numbe	er a	nd what does it	t mean?		these	e sentences	about s	pecial nu	umbers.	
			Place value	means			factor,	multiples	s, prime	
(1)		30 7 .42		7	(14)	A	+		number a	an only be
(2)		5 8 107.86			(15)	The		iders, n	of a nu	1. Umber are
(3)		342.8 9 1			found by multiplying the number by 1, 2, 3, 4, 5,					
(4)		30. 5 14			(44)		ecorung	The unst	of a aiva	n number is a
(5)		9.26 4			(10)	whole num	ber that	divides	exactly	into the given
When	n ro i	u ndina a numbe	er to the nearest	100 look at		number.	here is	no remai	inder.	
the 1	0's	place value nun	nber.	100, 100K ul	Worl	king with pr	ime num	bers.		9
Exam	ole:	2 <u>7</u> 5 rounds up	to 300 (5, 6, 7, 8	3, 9 🏫)	(17)	List the f	irst 10 p	prime nur	nbers.	X 🔪
	bı	ut 8 <u>2</u> 5 rounds do	wn to 800 (0, 1, 2	2, 3, 4 🌒						
Wher	1 ro	unding a numbe	r to the nearest	1000, look at	(18)	List the p	rime nur	bers be	tween 60) an 100.
the 10	00':	s place value nu	imber.		(19)	Cincle the	prime n	umbersi	in this lis	
Exam	ole:	3 <u>8</u> 05 rounds i	ip to 4000 (5, 6, 7	8, 9)		33 5	37 39	45 47	49 51	53 57 59
	but	t 1 <u>3</u> 53 rounds do	wn to 1000 (0, 1,	2, 3, 4 ♥)	Mor	ing with m	ultinlas		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,
Round	the	ese numbers to	the nearest		Exan	ple: The mu	ltiples of	5 are	5, 10, 15,	20, 25, 30 etc.
		4007	10 100	1000	(20)	, List the f	irst 10 m	utiples	of 9.	
(6)		183/	<u> </u>				0			
(7)		4079			(21)	List the m	ultiples	of 8 bet	ween 34	and 60.
(8)		6325					1.1.1	(7)	50	
(9)		14308			(22)	List the m	iuitipies	ot / det	ween 50	and 120.
(10)		53754			Wor	king with f a	ictors.			See.
(11)	W	rite these num	bers in order	169	Exan	nple: 2 and 3	are facto	ors of 6 d	ns 2 x 3 =	6.
、	fro	om smallest to	largest.	0,164	(23)	List the f	actors o	f 18.		
				1.63						
		,	,	· 16.5	(24)	List the f	actors o [.]	f 40.		
	_		,	1680				· - ·		
(12)	Wı	rite these frac	tions in order	0.0162	(25)	List the f	actors o [.]	f 56.		
	fro	om smallest to	largest.		Ş.	ฐภาคา				
				$1/_{2}$ $1/_{6}$	9	The air	n of this act	tivity sheet or decimal	is to revise	reading, writing &
		,	11	$\frac{1}{5}$ $\frac{1}{3}$	Suc		sion acti	vitv		value a realitaing.
		;;		1/ ₁₀ 1/ ₄	Mal	ke up similar qu	estions as	on this wor	ksheet to s	ee if your child
(13)	Wı	rite these frac	tions in order:			erstands the va mple: Write 5.	0392 <i>in wo</i> i	ematical ad rds. What	is the place	sea. value of the 5 in
	fro	om smallest to	largest.	2	19.3 sma	54? Round 345 allest to largest,	5.93 to the i 15.2, 1.53	nearest ten 3, 0.159, 15	oth. Order ti 57, 1540.	hese numbers from
		1		$\frac{2}{3} \frac{3}{5}$						
		,		4/ 7/	Sig	n when				
		,		/5 /10		·P·0:00.				

2 Addition & subtraction strategies	Term:	Week:		AWS							
There is more than one way to work out an answer.	Adding using c	olumns		1 1 2 34							
Here are some examples.	Add 34 + 1423	+ 9 + 135 + 3482	2 = ?	1423							
Groupings of 10, 100 or 1000	Rewrite the num	bers in a column, l	ining up	9							
Adding $\underline{25} + 7 + \underline{80}$ is the same as $\underline{100} + 12 = 112$ Pound to make '10' on a 'multiple of 10'	Add each column	of numbers, start	:. ting with	+ 3482							
Add 65 + 9 (add 5 to 65, subtract 5 from 9)	the right hand c	olumn.		5083							
Answer: 65 + 9 = 70 + 4 = 74	Rewrite these n	umbers in columi	ns, then	add.							
Adding or subtracting 100's, 10's and 1's Add 732 + 456 (100's) 700 + 400 (10's) 30 + 50 (1's) 2 + 6	(21) 9 + 682 + 8	37 + 3456	(22)								
Answer: 1100 + 80 + 8 = 1188	(22) 394 + 5209	9 + 8 + 76 + 542	+ 95								
Splitting numbers to make '10'	(21)		-								
Work out 485 - 8 = ● (485 = 480 + <u>5</u>) 480 - 8 = 472, Answer: 472 + 5 = 477			-								
Equal additions to make 'tidy' numbers			R.								
Subtract 181 - 93 (add 7 to both numbers)											
Don't subtract add	<u> </u>	— C	_	+							
$108 - 79 = \bullet$ is the same as $79 + \bullet = 108$			-								
$(79 + \frac{1}{2} = 80, 80 + \frac{20}{2} = 100, 100 + \frac{8}{2} = 108) \Rightarrow 1 + 20 + 8 = \frac{22}{22}$	Subtracting us	sing columns & r	enaming								
Work out the problems using any strategy you like, but	Subtract 653	- 389 = ?		5 14 13							
be prepared to talk about which strategy you used.	653	653		653							
(1) 299 - 74 =		<u>- 389</u>		264							
(2) 522 + 89 =		d as 4 & 13 (13	9 = 4).								
(3) 603 - 75 =	64 is rename	d as 5 <mark>& 14 (14</mark>	- 8 = 6).	FE							
(4) 924 - 679 =	finally 5		a thom	/ <u>4</u> / \							
(5) 198 + 126 =	(23) 4758 - 1	985 (24)	6243	3 - 4679							
(6) 145 + 261 + 619 =	* 5										
(7) 4396 - 2154 =			_								
(8) 85 + 187 =											
(9) 54 + 98 + 52 =	(25) 8000 - 2	2785 (26)	1200)0 - 5241							
(10) 1524 989 -		.,	1000								
(11) 269 + 1531 =			-								
(12) 605 + 391 + 149 =											
(13) 2704 - 829 =	the air	n of this activity sheet	is to look a	et different							
(14) 385 + 457 =	strategi subtrac	ies that could be used tion problems.	to work ou	t addition or							
(15) 519 - 374 =	Suggested exter	nsion activity:	L	and the state of the s							
(16) 1332 + 146 =	back of this resource	estions that cover the ce. These are key nul	basic num mber know	eracy facts at the ledge facts.							
(17) 853 - 95 =	I he strategies used child may not need have strategies of t	to use some or all of their own Encourage	e only a su these strate	ggestion. Your egies and may							
(18) 500 - 245 =	work out their answ	vers. Remember that important than the str	working ou ategy used	It the answer with							
(19) 132 + 826 =	Sign when										
(20) 375 + 601 + 439 =	completed:										
3	Multi	plicatio	on & divisi	ion stra	ategies		Term:		Week:		AWS
--	---	--	---	-------------------------------------	---------------------------	--	---	--	--	---	--
When more Here (200 Round Wor	n working w than one v are some v king out 25 x 8) + (50 x ding to use king out 29	vith larg vay to w using plo 9 × 8 is t × 8) + (9 2 'tidy' 8 × 5 is t	e numbers, ork out an ace value he same as . x 8) = 1600 numbers he same as .	there i answer. + 400 + 7	s 72 = 2072	Using rema First with then with	g written inders. To ly, 8÷6=1 a remainder 25÷6=4 a remainder	working f work out of 2 of 1	forms, so $185 \div 6$, $16)8^{2}$ $16)8^{2}$	ome wit rewrite ² 5 <u>4 r1</u> ² 5	h & without as
(300 Work be pre	out the pr pared to t	5) = 1500 oblems (alk abou	using any st using the str) trategy pategy y	you like, but ou used.	(16)	7)1	68	(18	B)	7)943
(1)	597 x 6	=				(17)			(19	9)	
(2)	790 x 7	=					8)5	20		*	8 3 7 5
(3)	607 x 8	=						tino og vo	u work o	++ + h - a	anablam
(4)	324 x 9	=				Show		a hiah aak			working space
(5)	741 x 7 :	=				(20)	computer	' roo <mark>ns a</mark>	e going		
Here Using Work (50 ÷ Round Working (200	are some c known mu king out 95 - 5) + (45 ÷ 5 l ing up or ng out 195 ÷ ÷ 5) - (5 ÷ 5	livision s Itiples c ÷ 5 is the 5) = 10 + 9 down to • 5 is the 5) = 40 - 1	strategies. of 10 e same as 9 = 19 o use 'tidy same as 1 = 39	numbe	rs		to be set Each root 23 compu- If the co is \$1365, cost to se	up n will hav iters. st of one , how muc et up the	e compute h will it compute	er	
Work be pre (6)	out the pr pared to to 108 ÷ 6 =	oblems alk abou =	ing any st which str	trategy rategy y	you like, but ou used	(21)	The total for five o to \$1890	idult fare . How mu	airfares s came uch did		
(7)	1788 ÷ 6	- _				(22)	The total	cost of s	r. seven	-	_
(9) (10)	119 ÷ 7 = 4024 ÷ 3		7				new bicyc How mucl cost?	:les was \$ n did each	4165. bicycle	0	50
Using To wo Fire	written rk out 95 x <i>stly, 8 x 5</i>	orking 8, rewrit = 40	forms reas	¹ 25 × 8	95	(23)	Nine new \$21150. the same of one co	computer If they a , what is t mputer?	rs cost re all the cost		
(No	ote: small 4 r	epresents	(40)) 0	<u>× 8</u>	2 200	2010000,				
then	, 90 x 8 = 7.	20 plus 4	0 = <u>76</u> 0		→ 760	4	I he air strateg	n of this activ ies that could ns	d be used t	s to look a to work ou	t different t multiplication
(11)	267 x 3	(13)	876 x 5	(15)	491 × 64	Sugg Make back The s child have	e up similar qu of this resources strategies use may not need strategies of	nsion activ estions that ce. These a d on this wor to use some their own. E	ity: cover the b re key num rksheet are e or all of th ncourage t	basic num ber knowl only a su nese strate hem to tal	eracy facts at the edge facts. ggestion. Your egies and may k about how they
(12)	598 X 4	(14)	926 x 8			work confid Sign comp	out their answ dence is more when bleted:	vers. Reme	mber that when the stra	working ou ategy used	it the answer with

4. Working with decimals	Term: Week: AWS
Adding decimal numbers using columns 2^{2} 1 1Add 0.23 + 14 + 9.4 + 135.3 + 3.485 = ?14.Rewrite the numbers in a column, lining up the decimal points. Add each column of numbers, starting with the right hand column.9.4135.3 + 3.485 162.415Rewrite these decimals in columns, then add.(1) 5.7 + 0.09 + 457 + 68.2	Using written working forms with decimals To work out 2.84 \div 0.4, move the decimal point in 0.4 until you are dividing by a whole number. Then move the decimal point the same number of places in the number being divided. <i>Example:</i> 0.4)2.84 \longrightarrow 4)28.4 Work out the answer using the same strategies as if working with whole numbers.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	in written form layout, then divide. (9) 14.7 ÷ 0.6 (10) 4.786 ÷ 0.07 (10) Adding ze ros and rounding With some division problems there appears to be no end.
Subtracting decimals using columns & renaming Subtract 46.3 - 2.58 = ? (Line up the decimal points) 2 10 46.30 -2.58 2 2 -2.58 2 -2.58 2 -72 -3.58 -72 -3.58 -72 -3.58 -72 -3.58 -72 -3.58 -72 -3.58	By adding extra zeros, you can keep dividing. Example: $18.7 \div 7 = 2$ Round this answer to 7 $0 2 . 6 7 1 4$ etc. 2 decimal places. Answer: 2.6714 rounded to 2 c.p. is 2.67 Rewrite these decimals in written form layout, add 3 zeros, then divide.
Rewrite these decimals in columns, then subtract.	(11) 13.7 ÷ 0.8 (12) 2.345 ÷ 0.09
(3) 217.9 - 149.5	(13) A school is charged \$0.015
(4) $5.326 - 1.049$ (5) $14.56 - 9.348$ (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	A4 sized paper. Work out the cost of printing 26584 copies.
 (6) 42.17 - 2.673 Using written working forms with decinals To work out 14 5 × 2.8, use the same strutegy as if working with whole numbers. Rewrite as 14.5 × 2.8 1160 2900 40.60 When does the decimal point go in the answer? By counting the digits to the right of the decimal point in the question, the position of the decimal point in the answer can be found. Example: 2 digits to the right of the decimal points, so 2 in from the right. Rewrite these decimals (7) in written form layout, then multiply. (9) (7) 4.78 × 0.9 	 (14) Nine C.D.'s cost \$143.55. If they all cost the same price, what is the cost of one C.D? I C.D. costs = \$ The aim of this activity sheet is to use addition and subtraction strategies to workout problems involving decimals / money. Remember to line up decimal points. Suggested extension activity: Make up similar questions as on this worksheet, that involve adding and subtracting decimals. Ask your child to work out an estimated answer before they do the calculation. Example: If I spend \$5.25, \$1.90, \$3.25 and \$9.90, how much have I spent and what change do I get from \$30.00? Answer: Estimated answer 5 + 2 + 3 + 10 = 20
(8) 2.345 × 0.07	Sign when completed:
Copyright ©2007 AWS Publications Ltd	This page MUST NOT be photocopied

5 Powers & Order of operations	Term: Week: AWS
When a number is multiplied by itself, such as	(17) 24 + 56 ÷ 7 =
1×1 , 2×2 , 3×3 , 4×4 etc. the answers that are	(18) 62 - 6 × 4 + 13 =
created are known as squares. These can be written as $1^2 \ 2^2 \ 3^2 \ 4^2$ atc	(19) $74 + 36 \div 9 = 6 =$
We say $, 4^2$ as 'four squared', which means $4 \times 4 = 16$.	
Work out the squares of these numbers.	
(1) 8^2 - (2) 7^2 -	(21) 49÷7+3×6 =
$r = \frac{r^2}{r^2}$ (n = 11 ²)	Problems involving brackets.
(3) $5^{-} = $ (4) $11^{-} = $	<i>Example:</i> $4(3 + 4)$ means $4 \times (3 + 4) = 4 \times 7 = 28$ $5(29 - 4 \times 6) = 5(29 - 24) = 5 \times 5 = 25$
(5) How many concrete tiles are needed to tile a square court vard if one	Lise order of operation rules to work out the answers
side is 13 tiles long?	for these questions involving brackets.
The opposite of squaring a number is to find the	(22) $3(4 \times 5 + 8) =$
square root. The symbol for square root is $$.	(2) $6(33 - 3 \times 1) =$
Example: If $3 \times 3 = 9$, then $\sqrt{9} = 3$	(24) $2(5 \times 8 - 12) -$
(i.e. two numbers the same that multiply to 9)	
work out the square root of these numbers.	Problems involving brackets and exponents.
(6) $\sqrt{81} = $ (7) $\sqrt{36} = $	$5(4^2 - 2 \times 6) = 5(16 - 12) = 5 \times 4 = 20$
(8) $\sqrt{144} = $ (9) $\sqrt{400} = $	Use order of operation rules to work out the answers
(10) A square court yard has 49 one metre square	for these questions involving brackets and exponents.
Tiles. How long is each s de?	(25) 2(4 × 3 + 8) =
Other powers. $T_1 = 0$ p_2^2 $p_3 = 0$ $p_3^3 = 720$	(20) 5(30 - 3 × 6)
$\begin{array}{c} 17 \ 9 \times 9 = 9^{-} = 81, \text{ free } 9 \times 9 \times 9 = 9^{-} = 729 \\ \hline Example: \text{ Find } 5^{4} \\ \hline Answer: 5 \times 5 \times 5 \times 5 = 625 \end{array}$	(27) 6(36-9-4 ²)=
Work out these powers.	
(11) 2	Add
(12) 3 ⁴	(28) 6 6 9 = 45
	(22) 35 5 8 = 15
(13) / -	
When working out answers with questions involving a mixture of operations, the order in which they are	
done will affect the answer. The letters BCDMAS or	(31) Aimee bought 7 books worth \$9.00 each and 6
BEDMAS will help you to remember the order.	pens worth \$3.50 each. How much did she spend
B = brackets Examples.	unogemer
O = of (E = exponents) $= 48 + 12$ $= 13 + 4 \times 3$ = division $= 48 + 12$ $= 13 + 12$	
= 60 = 25 $M = multiplication = 60 = 25$	The aim of this activity sheet is to understand square /
A = addition = $9 - 7$ = $10 + 3 - 7$	answers involving the four operations and exponents.
5 = subtraction = 2 = 6	Suggested extension activity: Make up similar number and word questions as on this worksheet that
Use order of operation rules to work out	require finding squares or square roots and questions using the order of operation rules.
The following problems.	Example: If a square tiled area has sides of 15 tiles, how many tiles are in this area?
(14)	If I buy five C.D.'s at \$15.00 each and a book worth \$12.50, how much
(15) 6 × 8 - 29 =	Sign when
(16) 75÷5-8=	completed:
Copyright ©2007 AWS Publications Ltd	This page MUST NOT be photocopie

6 Decimal place / Significant figures	Term:	Week:		AWS
Numbers can be rounded to a certain number of decimal places (d.p.) to obtain an approximate answer.	Use order of op problems, then	eration rules to round the answei	work out rs as stat	the following ed.
When rounding a number to a certain number of decimal	(19) 189 + 2	219 =	=	(2 s.f.)
If the next digit is 5 or above, add 1 to the last digit. If	(20) 50.00 - 1	2.85 =	=	(1 d.p.)
Example: Round these numbers to 1 d.p.	(21) 2.486	÷ 2 =	=	(2 d.p.)
4.5 <u>6</u> 9 rounds up to 4.6 (5, 6, 7, 8, 9 ♠) but 2.4 <u>3</u> 7 rounds down to 2.4 (1, 2, 3, 4 ♥)	(22) 6342 ·	< 5 =	=	(2 s.f.)
Round each number to 1, 2 and 3 decimal places.	(23) 2.368 +	3.73 =	=	(2 d.p.)
1 d.p. 2 d.p. 3 d.p.	(24) 9000 - 4	376	=	(2 s.f.)
(1) 2.5164	(25) 2.486	2 =	•	(1 d.p.)
(3) 0.9352	(26) 0.062	× 4 =	=	(1 s.f.)
(4) 485.3925	(27) 9.862 - 7	7.371 =	=	(2 d.p.)
(5) 3.91739	(2) 56000	× 8 =		(1 s.f.)
(b) 1.40219	(29) The weig	of ome boxe	s are	
(7) 0.0259	listed be	low.		
(8) 0.9999	Pound ea then wor	ch weight to 1 d k out the approx	.p. kimate (2 36kg 9 21kg
(9) 243	total weig	ght of these box	es.	15.46kg, 8.25kg,
Numbers can be rounded to a certain number of		<u> </u>		3.89kg, 6.45kg
answer. When rounding a number to a certain number of significant figures, count the required number of digits from the first non-zero digit. If the next number is 5 or above, add 1 to the previous digit.	(30) A transp the km's trucks, a Rour d ea then wor total dist	ort company reco covered by one o s shown below. ch distance to 1 k out the appro- cance covered.	ords of its s.f. kimate	265km, 341km, 704km, 476km, 198km, 534km
Examples: Round 3456 to 2.5.f. and 0.00048 to 1.5.f. Answers: 3500 (2.s.f.) & 0.0005 (1.s.f.)	(31) Here is K	aren's shopping r	receipt.	
Round each number to 1, 2 and 3 significant figures.	Round ea then wor	ch amount to 1 s k out the estima	s. f .	\$3.85, \$12.70
1 s.f. 2 f. 3 s.f.	total cos	t.	9	\$19.50, \$6.25 \$52.60, \$104.95
(11) 6 3753				\$3.95, \$29.65
(12) 0.04268	The air	n of this activity sheet f rounding numbers a	is to look at	t two different
(13) 90634	suggested exter	ues to work out estim	ated answe	rs.
(14) 0.003759	Make up similar qu round the numbers	estions as on this wo	rksheet. Asl - decimal pla	k your child to aces and
(15) 47	significant figures.	of wood is 4.945m lor	ng. Round t	his length to 2 d.p.
(16) 0.248	Two cities are 586	<i>km apart. Round thi</i> s rmarket shopping doc	distance to kets and as	1.s.f. k your child to
(17) 783.89	Sign when	timate total, by roundi	ng the price	s to the nearest \$.
(18) 0.46	completed:			

7	Frac	ctions / de	cimals ,	/ percen	tages		Term:		١	Neek:			AW	'S
The t the r called	top numb numerato d the der	er of a frac [.] r. The botto nominator.	tion is co om numb	alled Der is	0.00 0.00 0.00 0.00 0.00	Percen dividing <i>Examp</i>	tages ca g the per <i>le:</i> Conve	n be rcen ert !	e conve itage b 50%, 1	rted in y 100. .9% and	to de 140	e cima % to	l ls , by decima	als.
Frac [.] the r	tions can numerato	be converte r by the den	ed into d ominato	ecimals , b r.	y dividing	Answer 50% ÷	s: - 100 = 0.!	5, 1.9	9% ÷ 10	0 = 0.01	9 and	140%	% ÷ 100	= 1.4
Exan	<i>nple:</i> Con	ivert ≩ to a d	decimal.			Conver	t these p	perc	entage	es to de	cima	ls.		
4	0.75	Zeros will ne You keep div	ed to be ad iding until t 3 diaits aft	ded after the here is no ren er the decima	a decimal point. Nainder or there I point.	(25)	25%			(30)		2.5%		
		6		1_	•	(26)	40%			(31)		125%	0	
Conve (1)	rt these $\frac{1}{4}$	Tractions To	(3)	IS . ³ / ₅		(27)	72%			(32)		9%		
		<u></u>	_	7		(28)	6%			(33)		60%		
	2	+)1.000)		(29)	85%	7		(34)		0.8%	,	
(2)	⁷ /8		(4)	² / ₃		Percen	toges are	e ou	t of 10	O. Per	cento	iges	can be	
		7	_	7		conver	red to fr	ract	ions w	th deno	omina	tors	of	
))		Examp	<i>le:</i> Conve	ert 4	40%,7	1% and	۱9% ·	to fr	actions	
Decir	nals can	be converted	d into fr	actions, w	/ith	Answer	s: ⁴⁰ / ₁₀₀	2/5	74/100:	= ³⁷ / ₅₀ ar	nd ⁹ /10	00		
denoi	minators	of 10, 100, 1	1000 etc			Conver	t these p	erc	entage	es to fr	actio	ns.	Simplif	у.
<i>Exan</i> Answ	<i>iple:</i> Con iers: ⁵ /10	vert 0.5, 0.2	25 and 0	.019 to fr	ctions	(35)	7 5%			(40)		4.5%	, D	
/ 110//	Some fro	actions can b	pe simpli	fied		(36)	60%			(41)		125%	0	
	$\frac{5}{10} = \frac{1}{2}$	and ²⁵	/100 = 5/	$_{20} = \frac{1}{4}$		(37)	- 42%		5	(42)		5%		
Conve	rt these	decimals to	Fraction	1s . Simpli	fy.	(38)	8%	K		— (43)		90%		
(5)	0.2		(10)	0.8		(39)	35%			(44)		0.5%	· · · · · · · · · · · · · · · · · · ·	
(6)	0.35		(11)	0.05			bo missi	ina f	Fractio	_ ne dec	imale	0.5 /		
(7)	0.6		(12)	0.68		percen	tages in [.]	the	table l	ns, dec pelow.	mais	01	L'E CAR	
(8)	0.84			0 27		fr	action		d	ecimal		р	ercenta	age
(0)	0.04		-	0.27		(45)		*	→ (46)		*	→	50%	6
(9)	0.06		(14)	1.5			³ / ₄	*	→ (47)		~	→ (48))	
Decir multi	nals can	<mark>be c</mark> onverted e decimal by	d into p	ercentage	s, by	(49)		*	→	0.25	~	→ (50))	
Exan	<i>nple:</i> Con	vert 0.5, 0.0)19 and 1	to perc	centages	(51)		*	→ (52)		*	→	$66\frac{2}{3}$	%
Answe	ers:					(53)		*	→	0.8	~	→ (54))	
0.5	x 100 = 50	0%, 0.019 × 10	00 = 1.9%	and 1.4 x 1	100 = 140%		¹ / ₃	~	→ (55)		~	→ (56))	
Conve	rt these	decimals to	percent	ages.		Samme	The ail	m of	this activ	rity sheet	is to ur	ndersta	and that	
(15)	0.4	%	(20)	0.02	%	Sugge	able to	ers ca con	an be exp vert betw n activi	oressed ir veen thes itere	n differe e differ	ent for rent foi	ms and t rms.	o be
(16)	0.95	%	(21)	1.35	%	Using a	at least the f	fraction Id. to	ons, dec	imals, per	rcentag	ges pre	esented	on this
(17)	0.06	%	(22)	0.26	%	Examp	le: Conven	t zero entar	point finder	/e (0.5) to	a frac	tion ar	nd a perc	entage.
(18)	0.52	%	(23)	2.04	%	one qu	arter to a po	ercer	ntage an	d a decim	al etc.			
(19)	0.9	%	(24)	0.005	%	Sign w comple	/hen eted:							

Sign when completed:

(19)

%



9	More fractions	Term:	Week:	AWS
"What Work	 s two thirds of \$27?" asked Andy. Written as ²/₃ of 27 or ²/₃ × 27 "Firstly, divide 27 by 3 to find ¹/₃, then multiply your answer by 2 to find ²/₃", said Tom. Answer: 27 ÷ 3 = 9, then 9 × 2 = 18 but each fraction of these numbers. 	To add or subtra (bottom number subtract the nu <i>Examples:</i> ² / ₃ + ⁴ / ₅ - If the answer is an converted to a mixe When subtracting	Pract fractions the den tract fractions the same, merators (top number ${}^{3}/_{4} = {}^{8}/_{12} + {}^{9}/_{12} = {}^{17}/_{12} = 3$ ${}^{2}/_{3} = {}^{12}/_{15} - {}^{10}/_{15} = {}^{2}/_{15}$ improper fraction, it can be an umber, as above. The it may be necessary to	nominators then add or rs). 1 ⁵ /12 e convert a mixed
(1) (2)	Find $\frac{3}{4}$ of 96 =	number to an imp <i>Example:</i> 5 ¹ /4 -	roper fraction before su $3^{3}/_{4} = {}^{21}/_{4} - {}^{15}/_{4} = {}^{6}/_{4} =$	ubtracting. $1^2/_4 = 1^1/_2$
(3)	Find ⁴ / ₇ of 98 =	Add and subtra	ct these fractions.	Simplify your answers.
(4)	Find ⁵ / ₈ of \$72 =	(13) 7/ ₈ + 5		
(5)	Find $7/_{9}$ of \$10.80 =	(1 4) 2/ ₃ + 3	³ / ₅ =	
(6)	Andy is $^{2}/_{3}$ of the way through a cross-country race. If the race is 9000m long, how far has he run so far?	(15) $\frac{4}{5} + \frac{3}{2}$ (16) $\frac{3}{2} + \frac{3}{2}$	2/3	<u>, , , , , , , , , , , , , , , , , , , </u>
(7)	$9000 \div$ = x = Room 9 pupils are $^{2}/_{3}$ of the way through a 60 minute game of soccer. For how long have they been playing?	(17) 5 ³ / ₂ + 2 (18) ⁷ / ₈ - ³	2 ¹ / ₄ =	
(8)	60÷ = X = A café has sold ⁵ /8 of the salad rolls available for sole that day. If there are 136 bread rolls available, how many has the café sold so far?	(19) $3/4 = 2$ (20) $4^4/5 = 2$ (21) $7^1/3 = 5$	2 ² / ₃ =	
Find a Fiftee the m	a whole, given a fraction. en or $1/2$ of the Room 7 pupils went to ovies. How mony pupils in Room 7. Answer: $2 \times 1/2 = 1$, if $1/2 = 15$, then $2 \times 15 = 30$ pupils	(22) Two piec metres l	ces of wood are $6^2/_5$ rong. What is the com	metres and 4 ³ / ₄ bined length?
(9)	Alex has read 64 pages or $1/3$ of his book. How many pages in this book?	(23) A piece of piece of ⁴ long is th	of wood 10 $^{3}/_{4}$ metres $7/_{5}$ metres long cut of he piece that is left?	long is to have a f one end. How
(10)	Zoe has covered 12km or $1/5$ of her bike ride. How far does she plan to ride?	The air involvir and ad	n of this activity sheet is to rung fractions, find a whole nur d & subtract fractions.	evise calculations nber given a fraction
(11)	Evan scored 32 runs or ¹ / ₈ of the team total. How many runs did the team score?	Suggested exten Make up similar nu require working wit Example: Your po your pocket money	nsion activity: Imber and word questions as th fractions. In the section of the s	s on this worksheet that
(12)	Jackie spent \$7.20 or ² / ₉ of her money. How much money did she originally have?	Karen ate '/₄ of one has she eaten alto Sign when completed:	e pizza and '/₃ of a second p gether?	pizza. How much pizza

10	Working with percentages		Term:		Week:		AWS	
Findin done s <i>Exam</i> Possib (1) As (2) As (3) As	g a percentage of a quantity can be several ways. b/e: Find 30% of \$120 le methods: 10% of \$120 = \$12, 30% would be 3 x \$12 = \$36. 30% = 0.3, \$120 x 0.3 = \$36. 30% = ³ / ₁₀ , \$120 x ³ / ₁₀ = ³⁶⁰ / ₁₀ = \$36.	Increasing and decreasing by a given percentage. <i>Example:</i> If a book costs \$16.00 plus a 40% mark-up, what is the selling price? Answer: \$16 × 40% = \$6.40, \$16.00 + \$6.40 = \$22.40 Example: An \$850 bike is to be discounted by 20%. What is the discounted price? Answer: \$850 × 20% = \$170, \$850 - \$170 = \$680						
Can yo	ou think of other ways?	Incred	T.				nuicureu.	
Work	out each percentage of these numbers.	(12)	Increase	2 68 by 2	0%			
(1)	Find 20% of 90 =	(13)	Decreas	e 200 by	40%			
(2)	Find 80% of 140 =	(14)	Increase	e 75- by 15	50%			
(3)	Find $66\frac{2}{3}\%$ of 150 =	(15)	Decreas	e 150 by (66 ² 3%			
(4)	Find 33 ¹ / ₃ % of 24.6 =	The Go selling	oods and Se price for t	rvices To hese items	r (GST) is 8 after GS	12.5%. ST has be	Work out the een added.	
(5)	Find 75% of 1.08 =	(16)	Walkmar	Price =	\$16 + G	ST		
(6)	Andy is 50% of the way through a cross country race. If the race is 9000m long, how far has he run so far?			17)	nt.	ica = ¢1	20 + 65T	
(7)	Room 9 pupils are 75% of the way through a 60 minute game of soccer. For how long have they been playing?	Ę		<u> </u>				
(8)	A cafe has sold 20% of the salad rolls available for sale that day. If there are 135 salad rolls available, how many has the cafe sold so far?	A spor	s shop is after a 3	having a 3 ¹ 3% disc 18) Ro	sale. Wo ount has Iler blade	been to been to es: Pric	the new Iken off. e = \$195.00	
Find a Six or movie:	whole, given a percentage. 20% of the Room 7 pupils went to the 5. How many pupils in Room 7. Answer: $20\% = \frac{1}{5}$, if $\frac{1}{5} = 6$, then 5 x 6 = 30 pupils	(19)	Treadmi	ll: Price :	= \$954.00	0	ØS.	
(9)	Ali has read 64 pages or $33\frac{1}{3}\%$ of his book. How many pages in this book?	Ş.	The air involvin percent	n of this acting percentage and <i>î</i> r	vity sheet is les, find a w & & a numb	to revise hole num her by a gi	calculations ber given a ven percentage.	
(10)	Zoe has covered 12km or 25% of her bike ride. How far does she plan to ride?	Sugg Make require Exam your p	ested exter up similar nu e working wit ple: Your po pocket money	mber and w mber and w h percentag cket money y, how much	ord question es. each week do you save	ns as on t <i>is \$10. If</i> e?	his worksheet that	
(11)	Evan scored 126 runs or 70% of the team total. How many runs did the team score?	Jacob discou Sign comp	when whed:	e new clothe ch did he pa	es worth \$12 by for the clo	othes?	eived a 10%	

11	Positive & nega	itive nu	mbers / Integers		Term:		Week:		AWS
Use the temper	e thermometer scale ature after the follo	to work wing cha	out the new nges.	In a ga are add	me with t ded toget	wo dice her. <i>E.</i>	e, the two <i>xample:</i> 6	numbers 5 + 1 = 7	s that appear
(1) 5	tart at 17°C drop	14°C	20°C	Work	out the f	inal tot	al if thes	e totals v	vere thrown.
(2) 5	tart at 0°C rise 1	5°C		(26)	9, 10, 3	, 6, 11	,7		110
(3) 5	tart at 14°C drop			(27)	8, 11, 9	, 4, 2,	5	10	
(4) S	tart at ⁻ 9°C rise			(28)	3, 8, 11	, 10, 7	, 4		
(5) S	tart at ⁻ 3°C drop	15°C		(29)	7, 5, 8,	9, 6,	10		
Positiv Intege A num Examp A num negati Examp	ve and negative numbers can be represented ber line goes on forever the second forever the second forever the second forever ber line can be used to ve numbers together the second forever the second fore	 ers are ci ed on a ni ver, in bo , , to add po c. = -4	alled integers. Jumber line. oth directions. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	James to sper Vihen I overdr (31) E f	has a bar ne does, t aft and h Below are from his b account fr The openi Vork out poes out c	k account to ney the the account as a ney James Jame	ant that a ban he ha bunt is in gative bal details s count and nonth of nce was \$ w balance to his acc	Illows him s in it. ance. howing tl deposits Decembe 152.60. e each da ount.	he withdrawals into his bank r y as money
	-9+14	= 5		Date	Detail	W	(ithdrawal	Deposits	s Balance
< 				1/12	Openir bolanc	2			\$152.60
Use the	e number line to add	or subtr	nct these integers.	5/12	birthde presen	ıy t	25.80		
~ 	-10 -5 0	· · · · ·	5 10	9/12	repairs car	to	195.90		
(6)	12 + -7 =	(1)	-1 - 8 =	11/12	movie	5	8.50		
(7)	-11 + 8 =	(12)	09 -	16/12	wages			219.40)
(8)	7+-12=	(13)	-1217 =	19/12	Christm presen	as ts	105.30		
(9)	-5 + -6 =	(14)	-3-9=	23/12	groceri	es	77.65		
(10)	-7 + -3 =	(1)	-117 =	24/12	Closing balanc	9 e			
Add or	A2	er integei	-60 70 -	ş anımı	The ain	n of this a	ctivitv sheet	is to unders	stand that positive
(10)	-79 . 52 -	(21)	02 - 70 =	4	and neg	gative nur s.	nbers go on	for ever and	d are called
(18)	64 + -85 =	(23)	-6089 =	Using r as wou	noney totals	, ask you ou had an	r child to sub overdraft or	otract more t n a bank acc	from a given total, count.
(19)	-45 + -26 =	(24)	-23 - 47 =	Examp new ba add \$3	le: If you ha alance of you 7 to your ac	id \$80 in a ir account count v	an account a t? Also do ti vhat is the n	and spent \$ he reverse . ew balance:	115, what is the start with -\$90, ?
(20)	-64 + -57 =	(25)	-3872 =	Sign w	/hen eted:				

12 Standard form \Leftrightarrow ordinary numbers	Term:	Week:	AWS
Some of the powers of 10 and the numbers they represent are listed below.	Complete this table standard form and c	by converting betw ordinary numbers.	een
$10^{1} = 10, \ 10^{2} = 100, \ 10^{3} = 1000, \ 10^{4} = 10000, \ \text{etc.}$	Standard Form	⇔ Whole numbe	r or decimal
To multiply by a power of 10 is not as difficult as it	3.9 × 10 ⁷	⇔ (10)	
might seem.	(11)	⇔ 780	0000000
<i>Examples:</i> $3.5 \times 10000 = 35000, 29.7 \times 100 = 2970, 915.4 \times 0.01 = 9.154, 7.6 \times 0.0001 = 0.00076$	2.1 × 10 ⁻³	⇔ (12)	
In each example, the digits have remained the same, but the decimal point has moved.	(13)	⇔ 0 ⇔ (14)	000034
Work out the following.		о (, с) – – – – – – – – – – – – – – – – – – –	62000
(1) 5.3 × 100 =	4 37 × 10 ⁻⁶	⇔ (16)	
(2) 2.7 × 10000 =			0000689
(3) 9.185 × 1000000 =	9.014 × 106		0000003
(4) $0.26 \times 10^3 =$	9.014 * 10		00000523
(5) 25.3 × 0.000001 =	(17) (20) An according	traveled appr	
(6) 2.1 × 0.001 =	2 3 × 10 ³ kilo	metres in the past	two days.
(7) 7806.1 × 0.00001 =	Write this d	istance as an ordina	ry number.
(8) $143.9 \times 10^{-4} =$	(21) A train trave	els 48300km per ye	ar.
Numbers written in standard form have two parts a decimal number with just ONE non-zero number before the decimal point and a power of 10. <i>Examples:</i> 1.4×10^4 , 3.9×10^7 , $9.6 \times 10^ 2.5 \times 10^-$ Write these standard form numbers as whole numbers or decimals. <i>Answers:</i> 14000, 3900000, 0.0096 & 0.000025	Write this d (22) In a bottling Jars at the r The machine 7 days a wee Work out ha filled in 1 day Write your a	plant, a machine co ate of 3 per minute runs for 8 hours p k. w many jars can be y, 1 and 25 weeks. answers as ordinary	form.
(9) These standard form numbers have been converted to ordinary numbers. 9.7 × 10 ⁸ = 970000000 & 230000 = 2.3 × 10 ⁵ 2.1 × 10 ⁻⁴ = 0.00021 © 00000045 = 4.5 × 10 ⁻⁷ Describe the relationship between the standard form power of 10 and the moving of the decimal point in the whole number or decimal.	1 day: 1 week: 25 weeks: The aim of th multiply by p form and ord Suggested extension Make up similar number involve multiplying by point Lexample: At the TWO E cents to purchase. What 4.5 x 10 ³ km is the same Sign when completed:	his activity sheet is to una owers of 10 and convert linary numbers. activity: and word questions as o owers of 10 and convertin Dollar Shop, a small toy co it is the cost (in dollars) of e as how many kilometres	erstand how to between standard in this worksheet that g between the two osts the owner 35 f 10 ⁴ toys? c (ordinary number)?
Copyright ©2007 AWS Publications Ltd	45 -	This page	MUST NOT be photocopied

13	Ratio & rates					Term:		Week:		AWS	J.
Using of somether somether som	a ratio is one way of ning has happened a me kind. <i>Ne:</i> There are 18 gin tatement can be wri these statements a There are 11 cars ar Sam has 3 cats, 1 do s: 11:5 & 3:1:6	f descril nd comp rls and 1 itten as as ratios nd 5 tru og and 6	oing how of pares quanti 2 boys in Ri a ratio 18 : cks in the co birds as pe	ten ties of m 9. 12. ar park. ts.	(1)	 17) Divide (18) Share (19) Share (20) Two che garage divided does ea 	50L in a r 5117 in a r 5400 in a arities ra sale. If t in a ratio ch charit	atio of 5 ratio of (ratio of ised \$17 the mone of 4:5, y receive	:3 5:7 9:11 _ 505 in a y is to b how muc 2?	:: combined e h	a little
Ratios Examp	can be simplified , j / <i>e:</i> 40:50 = 4:5, 6	ust like 94:24 = {	fractions. 3:3	Start Start	P E	A rate compar Example: A co	es two que	antities d at 80k	of a diff m per hr	erent kind	1.
Simplit	y these ratios.					Medi cos	ts \$2.95	per litre			0
(1) (2)	8:10 =: 12:4 =:	(6) (7)	56:96 = ₋ 65:45 = ₋	;	k k	rate can be now the two c <i>Example:</i> Sam	worked ou wantities rides <u>his</u>	ıt if you bike for	2 hours	and over	ers s
(3)	30:15 =:	(8)	105:30 =	:	3	2 kilometres.	What is	his aver	age spee	.d? <mark>(16km</mark> /	'hr)
(4)	28:54 =:	(9)	6:9:3 =	0'	V	Vork out thes	e rate pro	blems.		2,~	
(5)	63:18 =:	(10)	8:2:10 =	::	(2	21) At the How mu	supermar ch does i	ket, appl t	es cost :	<mark>\$3.3</mark> 0 per ش	kg.
Write ⁻ then sin (11) (12)	the information in ea nplify the ratio if p At the movies ther children and 15 adu At a rugby game, 54 team and 3200 supp	ach sen ossible e were s Its. 400 sup ported i	ported one the other.	atio,	(22) Petrol of How ma apples of How ma cost to How ma	buy 2kg? ny kilogra do you get osts \$2.1 ch does i buy 35 li ny litres	ams of t for \$1.9 O per lit t tres? of	90? re.		
(13)	It rained two days of fine days to wet	last wee days fo	ek. Write tl or last week	he ratio		Pete dr How fa 3 hours For how	lo you get ives his c [•] does he at this s 1 long had	t for \$52 ar at 95 travel ir peed? he been	2.50? km/hr. 1 driving	*	0
Quant Examp a ratio How m Answer: Add the Divide t Multiply One fr	ities can be shared <i>le:</i> Cake was cut if of 1.3 between two any pieces does eac ratio numbers. (1 + 3 he quantity being shared each ratio number by the riend get 3 pieces ar	by a giv into 12 ofriends th friends 3 = 4) I by this a his answer nd the o	n ratio. pieces and s get? nswer. (12 . (3 × 1 = 3) ther gets 9	hared in ÷ 4 = 3) , 3 × 3 = 9) pieces.	6	if he co eas Grapes How mu cost to How mo can you The a create Also	vered 142 are on sp ich does i buy 1.75 any kilogra buy for s im of this act & simplify r inderstand h	2.5km? ecial for t kgs? ams of gu \$12.25? tivity sheet atios and d ow rates an	\$4.90 p	stand how to ntity by a rati	о.
Share (14)	these quantities by Share \$60 in a rati	the give to of 2:3	n ratios.			Using money tota ask your child to o Example: Share If meat costs \$14	Is and creati divide the mo \$66 in a ration 95 per kg, h	VI ty: ng similar c oney total u o of 5:6. D ow much d	questions a sing variou vivide 240kg	s on this shee s ratios. g in a ratio of cost?	et, 2:3:5.
(15) (16)	Divide 117kg in a ra Share \$99 in a rati	itio of 7 io of 5:6	:2:	_:		Sign when completed:					

4. Number patterns or sequences

As people enter a party, they are given a spot prize ticket numbered from 1 to 60.



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60

Alex's lucky number is 3, so he started with the 3rd person who got the first spot prize. He then selects every 6th person, who also gets a spot prize.

- (1) On the grid above, **circle** all ticket numbers that will receive a prize.
- (2) List the number sequence you created.

(3) How many spot prizes were won?

- (4) A piece of fish costs \$1.95.
 Work out the number sequence that shows the cost of buying 1, 2, 3, 4 and 5 pieces of fish.
- (5) How many pieces of fish can you buy with \$13.65?
- How many pieces of fish c you buy with \$21,45

Some number patterns or sequences can be created by using a rule. Rules can involve more than one operation $(+, -, \times \text{ or } \div)$. Sequence numbers are called terms (n). *Example:* Use the rule 'Multiply by 5, then subtract 4 to create the first 4 terms of the number sequences

Answers:

1st term: $1 \times 5 - 4 = 1$ 2nd term: $2 \times 5 - 4 = 6$ 3rd term: $3 \times 5 - 4 = 11$ 4th term: $4 \times 5 - 4 = 16$

The first 4 terms in this sequence are 1, 6, 11 & 16.

For each word rule, **work out** the first **5** numbers in this sequence and **write** your answers in the tables.

(7) Rule = Multiply by 2, then add 5

Terms (n)	1	2	3	4	5
Sequence numbers (S)					

(8) Rule = Multiply by 3, then subtract 2

Sequence	Terms (n)	1	2	3	4	5
numbers (S)	Sequence numbers (S)					

(9) Rule = Multiply by 6, then add 5

Term:

Terms (n)	1	2	3	4	5
Sequence numbers (S)					

Week:

(10) Rule = Multiply by 4, then subtract 7

Terms (n)	1	2	3	4	5
Sequence numbers (s)					

For each rule, work out the first 5 numbers in this sequence and write your conswers in the tables

	(11)	Rule: S	4 n	3					
		Terms (n)		2	3	4	5		
		Sequence numbers (S)							
	(12)	Rule: S	= 15 -	5n					
		Terms (n)	1	2	3	4	5		
		Sequence numbers (S)							
	(13)	Pule S	= 8n +	3					
		Terms (n)	1	2	3	4	5		
		Sequence numbers (S)							
	(14)	Rule: S	= 2n -	7					
,		Terms (n)	1	2	3	4	5		
	Sequence numbers (S)								
	(15)	Anumbe	r sequer	nce is cre	eated us	ing the r	ule		
		Find the	followin	g terms	in this s	equence			
J		6th te	rm:						
1		18th te	rm:						
		32th te	erm:						
	100th term:								
	(16)	What te	rm (n) ir	n the					
		sequence	e has a v	alue of 4	35?				
]	9 	The an or seq	im of this a luences by	ctivity shee using a rul	t is to crea e.	te number j	patterns		
	U	sing everyday ex	xamples, c	reate your	own numbe	er patterns	by adding		

Using everyday examples, create your own number patterns by adding or subtracting a constant number from a starting number. Ask your child to work out and describe how the pattern was created.

Example: If a hamburger costs \$3.50, work out the cost of buying 1, 2, 3, 4, 5 up to 10 hamburgers to create a number sequence.

Sign	when
com	pleted:

Copyright ©2007 AWS Publications Ltd

AWS

15 'Like' terms, expanding & factorising	Term: Week: AWS
An algebraic term is made up of numbers (coefficients) letters (variables) and powers (exponents)	Removing the brackets from an algebraic expression is called expanding
<i>Example:</i> $9a^{3}b$ 9 is the coefficient	Example: Expand 2(a + 5) and 5(3c - 4)
'a' and 'b' are the variables	Answers: 2 × a + 2 × 5 = 2a + 10
3 is the exponent	5 × 3c - 5 × 4 = 15c - 20
<i>Example:</i> $4y^2$, $-6y^2$, $10y^2$ are like terms,	Expand these algebraic expressions.
but 5y, $7y^3$, $-3y^2$ are not like terms.	(16) 7(a + 8)
An algebraic expression is a group of algebraic terms.	(17) 4(b - 10)
Only like terms can be added and subtracted when	(18) 3(4c + 7)
simplifying algebraic expressions.	(19)
<i>Example:</i> $4k^3 + 5k^3 = 9k^3$	
Look at the fish shapes in these boxes.	
Box 1 Box 2 Box 3	Expand these algebraic expressions, then simplify by collecting like terms
	(22) 7 9 - 6) + 14
(1) How many of each fish shape in each box?	(23) 13 • 4(2h - 5)
Box 1: 🖅 =, 🐲 =	(24) 7(m + 3) + 5(m - 9)
Box 2: ﷺ =, ₩ =,	(25) 2(4k + 3) - 3(2k + 2)
Box 3: $a = 1$, $a = 1$, $b = 1$, $b = 1$	Factorising an algebraic expression is the opposite of
Total \approx =, \approx =, \approx	expanding.
Simplify these algebraic expressions	<i>Example:</i> Factorise 8a + 12 and 9d - 15 Answer $A \times 2a + A \times 3 = A(2a + 3)$
by collecting like terms.	3 × 3d - 3 × 5 = 3(3d - 5)
(3) 6a + 7a	Cactorise these algebraic expressions.
(4) 12b - 9b + 5b	(26) 8a + 56
(5) 8ab + 62 - 5ab	(27) 7b - 28
(6) 7f + 5g + 9g - 5f	(28) 6c + 54
(7) 8m - 6n + 5m + 2n	(29) 6e + 10
(8) 12p + 9q + 7q - 13p	(30) 5f + 20g + 40
(9) 8e + 9ef - 8ef	(31) 12h ² + 10h
(10) $8e^2 + 9e^2f - 8e^2f$	The aim of this activity sheet is to work with algebraic terms involving simplifying by collecting like terms,
(11) $2c + 8c^2 - 5c^2$	Suggested extension activity:
(12) $11e^2 - 15e^2$	Make up similar questions as on this worksheet and ask your child to simplify by collecting like terms. This can be done using objects first
(13) $12g^2 - 7g^2 + 8g^2 f$	before you work with algebraic terms. Make up similar questions as above to revise expanding and
(14) $11d^2e - 9de^2 + 5d^2e$	factorising algebraic expressions.
(15) $14w^2 + 9w^2v - 8wv^2$	Sign when completed:

16	Solving linear e	equations	5	Term:	Week	:	AWS
To sol that w Examp 29 + a 7c = 5 Remen either Use any	ve an equation mean yould go where the l o <i>les:</i> = 73, b + 19 = 45, 6 (where 7c means nber that the total side of the equal si y strategy you like	is to work etter is. 7 × c) on ign, must b to solve the	out the number	Some equation skills to solve. <i>Examples:</i> 4c + Solve these equa Round your answ	s involve a comb 4(c + 5) = 39 4c + 20 = 39 20 - 20 = 39 - 20 4c = 19 $4c \div 4 = 19 \div 4$ $c = 4\frac{3}{4}$ ations and show vers to 2 d.p.	vination of 2(20 2 d - 10 2 your wor	algebraic d - 5) = 47 d - 10 = 47 d + 10 = 47 + 10 2d = 57 d + 2 = 57 + 2 $d = 28\frac{1}{2}$ king.
equatio strateg	ns. Be prepared to y you used.	talk about	what	(11) 6(k +	3) = 41 (1:	2) 8	(g - 6) = 37
(1) (2) (3)	a + 47 = 131 b - 63 = 102	t	a = > =	~	2		0
(3) (4)	40 d = 640	ć	 d =		C) —	
Solve the show you	a+5 = 2 a+5 = 2 a+5-5 = 2 a = 1 a = 1 hese equations using bur working. Leave of e+15 = 51	3 to solve e 23 3 3 - 5 8 opposite answers as (8)	3b - 8 = 31 b - 8 + 8 - 31 + 5 - 8 + 8 - 31 + 5 - 8 + 8 - 39 + 3 - 8 + 3 - 39 + 3 - 8 + 3 - 39 + 3 - 9 - - - 9 - - - 9 - - - 13 - - - 9 - - - 13 - - - 78 - - - 78 - - - 78 - -	Use any strate Be prepared (13) 6(k-3) (13) 401 - m (15) 9d + 27	gy you like to so talk about what) = 37 k = = 95 m = = 111 d =	Ive these strategy	equations you us ed. working space
- - (6) -	e = 6f + 13 = 09	(9)	h = 9g + 69 = 75	 (16) 7(b + 5) Real this word then work out the may be modeled as the second second	b = 80 b = problem, write of the answer. re than one way the 6 even paced lap top during one lo nd. If he was ou the stop, how lo each lap?	an equation o write the os around ap for 21 it for 1 hr ong does i	on and e equation. a local park, minutes to talk o 19 min 30 sec, t take Sam to
- - (7)	f = 8 g - 48 = 19	(10)	g = 4 f + 82 = 15	Equation The aim skills to s to solve Suggested exter Make up similar qu solve (work out) ea	of this activity sheet solve equations and i equations using + / - Ision activity: estions as on this wo ch equation using th	is to revise s ntroduce me and x / ÷ nu rksheet. As e formal stra	imple algebra thodical methods meracy facts. k your child to tegies as used on
-	g =	-	f =	this worksheet or le come up with. Ask your child to ex this worksheet. Sign when completed:	xplain their strategy, i	f it differs fro	m the methods on



18 Th	e metric system			Term:		Week:			AWS
The basic un the metre , t What can yo Answer: Use mass (weight) Larger and s 10, such as b	nits of the metric system the gram and the litre . bu measure with each uni- metres to measure length , and litres to measure capa smaller units are all base kilometre, centimetre and	t? grams to measure acity (volume). d on multiples of d millimetre, etc.	Moi (27) (28) (29) (30)	re metric con 8100g = _ 0.5kg = _ 9.1t = 3950kg =	nversion: ł kg kg	s. (g (31) _g (32) (33) _† (34)	13.5L 750m 11470 5.1kL	= L = _)L = _ =	L L L
How much lan the basic uni	rger or smaller is each un t? Fill in the missing nu (1) times lo	nit compared with mbers.	Wh the <i>Fx</i>	ien adding ar e 'units' mus [:] cample: .Sam	nd subtro t be the <i>has two</i>	acting ler same . Dieces of	ngth mea f <i>wood</i>	sure	ements,
metre centimetre	standard unit f	or length	On Wi Ans	ne is 75cm loi hat is the to swer: 075m	ng and 1. tal lengti 2.9m = 3	<i>e other</i> h <i>of wood</i> .65m	is 2.9m i d in meti	lorg. res?	
millimetre tonne	(3) times sh (4) times hea	norter than a metre	An: (35)	wer these qu 6.3g ÷ 9 =	Jestions ?(answer	in the mo	etric uni Ins)	ts st	tated.
kilogram gram milligram	(5) times he standard unit fe	eavier than a gram or weight ghter than a gram	(36)	900m + 4.	<mark>.8 km + 8</mark> 2	Ocm = ?	(answer	inme	atres)
kilolitre	(7) times more standard unit for	e volume than a litre	(37)	4500g - 3	.9kg = ?	(answer i	n kilogram	5)	
millilitre Using each o the abbrevia measure the	(8) <u>times less</u> f the above metric units ted metric unit/s that w following. <i>Example:</i> m	s volume than a line only once, write ould be used to erre = m	(39) (40)	132.7cm	905mr 8.7g + C	= ? (ansi 0.53kg = 1	wer in milli ? (answer	metr [•] in g	es) rams)
(9) The we(10) The he(11) The vo	eight of a large truck. sight of a tall tree. lume of a small cup.		(41)	7865kg -	5.7t = ?	(answer i	n tonnes)		
(12) The th(13) The co(14) The way	ickness of cardboard. pacity of a large bucket. eight of an apple.		(42) (43)	7280mL÷ 	8 = ? (ar 64cm + 4	nswer in lite 100mm	res) = ? (answe	er in o	centimetres)
(15) The di(16) The th	stance between two citie ickness of a text book.	25.	(44)	580L x 6	=? (ansv	ver in kilol i	itres)		
Converting b	etween metric units.		Š	The ain metric s	n of this act system and	ivity sheet to convert	is to revise between th	the u le var	nits of the ious units.
 (17) 2.5m = (18) 1250m (19) 7.2m = 	mm (22) 13 m =m (23) 90 cm (24) 5.	650m =mm 650m =km .8km =m	As ad un Ex the fut	Appendix A contract of the second sec	onvert betw ious metric 35 to Q44. 2.4m length e of wood? t. What is t	reen differe measurem Make up w of wood, & An empty the weight of	nt units as ents prese vords proble 800cm is cu truck weigh of the load?	in Q1 nted i ems. <i>it off.</i> hs 7.5 Petc.	7 to Q34 and in different How long is 5t and when
(20) 396cm (21) 52mm Copyright © ₂₀₀₇ AWS F	=m (25) 3. =cm (26) 4. Publications Ltd	2g =mg 250mg =g - 5	Si co	gn when mpleted:			This page M	UST NO	OT be photocopied





















b



Copyright ©2007 AWS Publications Ltd









Ask your child to create their own designs using rotation or reflection and have them describe how they created their design.

Sign when completed:

m

m



35 Mean, median, mode and the range	Term: Week: AWS
There are three commonly used types of averages called the mean , median and mode . The mean is worked out by Adding up all the scores, then dividing the	Knowing the spread (range) of the scores can be helpful. The range is worked out by Range = highest score - lowest score <i>Example: What is the range of these scores?</i>
Example: Find the mean of 5, 9, 14 & 20. Answer: $5 + 9 + 14 + 20 = 48$, $48 \div 4 = 12$, mean = 12	10, 6, 7, 9, 11, 7, 8, 5, 3 Range = 8 (11 - 3) Work out the range of each group of scores.
Work out the mean for each group of scores and round your answers to 1 decimal place (1 d.p).	(13) 37, 40, 94, 63, 95, 112, 54 (14) 106, 73, 66, 154, 93, 42, 174, 21
(1) 8, 5, 3, 9, 8, 6, 7, 9, 12, 7 (2) 35, 56, 69, 42, 51, 32, 78	(15) 140, 63, 262, 97, 59, 115, 423
(3) 123, 189, 152, 147, 201, 187	(16) 9.4, 4.3, 11.9, 15.4, 7.1, 3.3, 2.9 Jody goes for bike rides in the weekend.
(4) 1.5, 2.2, 3.8, 1.9, 4.1, 6.3, 1.9, 5.7	The distances recorded below are in kilometres. 34.3, 38.7, 27.9, 52.1, 36.4, 43.7, 52.1, 34.8
The median is worked out by Writing the scores in order from smallest to largest. The median is the middle scor Example: 3, 4, 6, 7, 8, 9, 13, 21, 35. As these scores are in order, start counting one score off each end until you reach the middle. The median (middle) score for this list (8) If there is an even number of scores, there will be two scores left in the middle. The median is half way be ween these scores. Example: 5 6, 9 13 (6 & 9 are in the middle) Median = $7\frac{1}{2}$ (6 + 9 = 15, $15 \div 2 = 7\frac{1}{2}$) Work out the median for each group of scores. (5) 6, 7, 9, 12, 7, 8, 5, 3, 9 (6) 35, 56, 32, 78, 69, 42, 51 (7) 3,23, 3,89, 3,52, 3,47, 3,01, 3,62 (8) 1.9, 41, 63, 1.9, 5.7, 1.5, 2, 2, 3, 8 The mode is the easiest 'average' to work out. The media is the maximum common scores	 17) For how many week has has Jody been ruling? (18) Work out the average' distances and range for Jody's like rides. Inean =
The mode is the mcc common score Example: What is the mode of mese scores? 13, 3, 7, 9, 11, 9, 10, 5, 3 Mode = 3 & 9 Note: There can be more than one mode. Work out the mode for each group of scores. (9) 10, 12, 10, 11, 6, 14, 15, 6, 13, 10 (10) 16, 15, 12, 14, 16, 15, 14, 11 (11) 15.03, 15.09, 15.03, 15.00, 15.09 (12) 136, 175, 127, 168, 166, 171	Range = Range = The aim of this activity sheet is to work out the three types of 'averages' (mean, median and mode) and the range for a group of scores. Suggested extension activity: Collect or create a list of scores (numbers). Ask your child to work out the three 'averages' and range of the scores. Example: The hours spent playing computer games etc. The weight of 20 apples. The height of people in your family. Think about which average is the best to use and why. Sign when completed:



Copyright ©2007 AWS Publications Ltd

37	Discrete / conti	nuous data ar	nd histogra	ms Term:	w	/eek:	AWS
Data obto When the can be or frequency Example: class test frequency How many between How many Answers: 6	ained by counting ere is a large rang ganised into group y table. The results of a t are shown in this y table. y pupils scored 10 and 14? y scored exactly 2 pupils, impossible to v	is called discret e of data scores os (class interval 0-4 1 5-9 ## 10-14 ## 15-19 ## 20-24 25-30 ##	e data. s, the data s) using a y Frequency 1 5 1 6 1 8 3 5 28 ored 20 - 24)	Grouped discred data can be dis A histogram is graph without th Example: Group discrete data th class test is sho this histogram. How many pupil between 20 and Answers: 3 pupils	e te data and splayed in a like a colum the gaps. <i>sped _{Fre} for a own in</i> s scored d 24?	d continuous histogram. In 10 Clas equency 5 0 5 10	s test scores
In a poste mark out c 19, 57, 8 48, 35, 5 46, 79, 9 37, 15, 3	r drawing compet of 100, as recorde 9, 75, 46, 22, 91, 2, 68, 73, 58, 69, 2, 50, 78, 83, 90, 7, 63, 85, 84, 72	ition, pupils were d in the box bel Score Tally 0 - 20 - 40 -	e given a ow. / F	The histogram to of a cross-count (7) How many took less minutes?	y runners than 31	the results 10 + Ra	times
 37, 13, 3 81, 62, 4 (1) Org (2) How (3) How 	anise this data us many pupils score	ing the frequence above 507	cy table.	(9) complete	this	10 Drawin	31 34 37 40 e (minutes)
Other da any value. and can <i>Example:</i> <i>in Rm 8 a</i> <i>frequency</i> How many than 1.4m Answers: 1	ta is obtained by This type of dat so be organized u The height of pu re shown in this y table. y pupils one taller 25 pupils (8 + 7)	measuring and ca a is called contin sing a frequency pils Height Ta 1.1m - II 1.2m - II 1.3m - #H 1.4m - #H 1.5 - 1.6m ##	in take on nucus duta rable.	(10) In the sp draw a his the data frequency	ace below, stogram for in Q4's y table.	o 20 Mar	40 60 80 100 ks out of 100
Oranges a Below are 80.8, 95. 94.9, 89. 94.5, 102 95.2, 83. 91.8, 97. 88.1, 100 86.5, 91.	re graded by thei the weights in gro 3, 81.6, 82.4, 90.7, 4, 93.7, 95.9, 86.1, .7, 87.8, 90.3, 89.8, 4, 94.9, 96.7, 99.7, 1, 88.4, 83.5, 95.3, .9, 93.2, 91.9, 82.3, .3, 99.3, 92.1, 84.9	r weight. ams of some ora <u>Weight</u> Tall 80.0 85.0 90.0 95.0 100+ ing the frequency	nges.	The ain betwee frequen Suggested exter Ask your child to co	n of this activity n grouped discr ncy table and dr nsion activity ollect discrete d	r sheet is to learn rete and continuc raw a histogram. /: lata that can be g	the difference bus data, use a
 (4) Org (5) Who in the (4) Only 	anise this data us at is the heaviest he 85.0 - group?	ing the frequend orange that cou	ty table. Id be	continuous data tha (class intervals) us Example: Weigh 2 4 or 5 groups and s graph.	at involves mea ing a frequency 20 potatoes or o sort the weights	suring. Sort the table and then continues using kitch into each group.	data into groups Iraw a histogram. Iran scales. Make up , then draw the

Only oranges weighing over 90.0 but under 100.0 grams are for export. How many of these oranges will be exported?

Sign when

completed:


39 Probability calculations	Term: Week: AWS					
The relative frequency or experimental probability of an event occurring is the fraction or proportion of times the event occurs. Example: In an experiment, two coins are tossed 100 times (100 trials). The event recorded was, 'How many times two tails occurs'. This occurred 27 times.	For equally likely outcomes, the probability of the event occurring can be worked out using the following Theoretical probability = Number of ways the event can occur Total number of outcomes Example: If a coin is tossed 500 times in the air, how many					
Relative frequency =Number of times the event occurs Total number of trialsIn the experiment, the number of trials was 100, the event occurred 27 times, therefore the relative frequency or experimental probability of the event was 27/100.In an experiment, three coinsEventTallyF	There are only two outcomes heads or tails. The theoretical probability of the coin landing on tails is 1 chance out of 2 or $\frac{1}{2}$ or 0.5, written as P(tails) = $\frac{1}{2}$. Answer: $\frac{1}{2} \times 500 = 250$ times. All probability values range between 0 and 1. (0 = can never occur. 1 = wild ways occur).					
were tossed in the air and what appeared on the coins (in any order) when they landed is recorded in this frequency table.	A bag contains 5 red, 3 white, 4 black and 3 green blocks, all the same size. (5) How many blocks in this bag? (10) A block is selected from the bag. Work out the					
 (1) How many trials were in this experiment (2) Work out the relative frequency 	theoretical probabilities of these events. Write your answers as a fraction and a decimal.					
 of the event TTT. (3) Work out the relative frequency of the event HHH. (4) Which event had a relative frequency of ¹/₅? (5) If the three coins were tossed 120 times, how 	P(areen) = P(red or white) = P(white, green or red) = P(nink) =					
many times would you expect the event HHH to occur? Use the frequency table below to record results of your own experiment, 'to sing four coins 50 times'. Event Tall TTTT TTTH	 Which coloured block has a theoretical probability of 0.25 of being selected? If a block is selected, then replaced in the bag, 100 times. How many times would you expect it to be a white block? If a block is selected, then replaced in the bag, 240 times. How many times would 					
ТТНН ТННН НННН Total:	 you expect it to be a red block? (14) If a white block is selected, but NOT replaced in the bag, work out the theoretical probability of selecting a black block next time? 					
 Use the tally column above to record what appears on the four coins after each toss, then complete the frequency (F) column. Note: the order the coins land does not matter. 	The aim of this activity sheet is to understand the two ways of working out probability - experimental and theoretical probability. Suggested HOME activity: Make up a bag of 10 different colour blocks, all the same size.					
 (7) Work out the experimental probability of each event. Write your answers in the table. (8) Based on your results, if the four coins were tossed 500 times, how many times would you expect the event THHH to occur? 	 Example: 3 red, 5 blue and 2 black blocks. Ask your child to work out the theoretical probability of selecting each colour. If a block is drawn and replaced from the bag 50 times, predict how many times each colour should be selected. Conduct an experiment and compare the results with the theoretical probabilities. Sign when completed: 					

40 Finding outcomes & probabilities	Term: Week: AWS
An outcome is what happens when you have a choice. Sometimes finding all possible outcomes can be difficult. Using a box / grid can help. Example: Two coins are tossed in the air. I = H + H + H + H + H + H + H + H + H + H	To find the probability of more than one event, such as P(H, T) or P(T, T) occurring, work out the probability of each event, then add the probabilities together. <i>Example:</i> P(H, T) = $\frac{1}{4}$ and P(T, T) = $\frac{1}{4}$, therefore probability of P(H, T) or P(T, T) occurring is $\frac{1}{4} + \frac{1}{4} = \frac{1}{2}$. This tree diagram shows the possible outcomes when a card is selected and a coin tossed.
One of four cards (H, D, S, C) is selected and a six sided die (1, 2, 3, 4, 5, 6) is thrown at the same time. $1 2 3 4 5 6$ $\boxed{0}$ $\boxed{D1}$ $\boxed{0}$ $\boxed{0}$ $\boxed{0}$	 (5) How many outcomes are there? (6) What is the probability of selecting any card? What is the probability of the coin landing on heads or tails? (7) Write the probability of each
 (1) Use this grid to work out all possible outcomes. (Write letters / numbers only) (2) How many outcomes are there? (3) Use this information to work out the following probabilities of these events. Write your answers as a fraction and a decimal P(H, 4) = P(S, an even number) = P(Any card, 6) = P(C or S, odd number) = 	event on the tree diagram. (8) Use the tree diagram to work out the following probabilities of these events. Virite your answers as a fraction and a decimal. $P(2, T) = ____$ $P(4, H \text{ or } T) = ___$ $P(Any card, T) = ___$ $P(C \text{ or } 5, H) = ___$ $P(6, T) = __$
P(C, 7) = (4) If a cond is selected and the die tossed 100x, how many times would you expect the acc of diamonds and any number to occur A tree diagram can also be used, to named because of its shape. Example: Two coins are tossed in the air. To find all possible outcomes, follow each branch of the tree diagram 4 branches so there will be 4 outcomes. (H, H), (H, T), (T, H) & (T, T) The probability of each event can be added to the tree diagram that is P(H) = $\frac{1}{2}$ and P(T) = $\frac{1}{2}$. To work out the probability of any event, such	 If a card is selected and a coin tossed 240x, how many times would you expect the 3 of spades and heads to occur? (10) In another experiment, a die is also rolled after a card is selected and a coin is tossed (as above). Work out the probability of P(4 of spades, Tails, 6) = The aim of this activity sheet is to investigate the use of grids or tree diagrams to work out all possible outcomes and calculate probabilities of various events. Suggested extension activity: Create similar questions as on this activity, using grids or tree diagrams to work out all possible outcomes and probabilities. Example: Place 5 red, 3 green and 2 white blocks in a bag. Ask your child to select a particular coloured block and describe the chance of selecting that block.
as P(T, H) in that order, follow the branches of each event and multiply their probabilities. Example: P(T) × P(H) = $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$	chance of selecting that block 2 out of 10 chances (a white block). Sign when completed:

Addition and subtraction facts presented in this resource:

-	21211		177	545	-	:::::		in ai	its.				V.C.	53	15			y of	Pe c	ts.
1	+	1	=	2	2	+	2	=	4		1	+	5	=	6	1	+	6	=	7
											5	+	1	=	6	6	+	1	=	7
2	-	1	=	1	4	-	2	=	2		6	-	5	=	1	7	-	6	=	1
											6	-	1	=	5	7	-	1	=	6
1	+	2	=	3	1	+	4	=	5		2	+	4	=	6	2	+	5	=	7
2	+	1	=	3	4	+	1	=	5		4	+	2	=	6	5	+	2	=	7
3	-	2	=	1	5	-	4	=	1		6	-	4	=	2	7	-	5	=	2
3	-	1	=	2	5	-	1	=	4		6	-	2	=	4	7	-	2	=	5
1	+	3	=	4	2	+	3	=	5		3	+	3		6	3	+	4	=	7
3	+	1	=	4	3	+	2	=	5							4	+	3		7
4	-	3	=	1	5	-	3	=	2		6		3 -	=	3	7		4	=	3
4	-	1	=	3	5	-	2	=	3			\bigcirc		•		7		3	=	4
										-					C					
																				
F	-	V.C.	N B S (et.e		:111)	y o	Fac	de .		Ea				ct.	E		ly o		3
1	+	7	=	8	4	+	4	. =	8		3	+	6	-	9	2	+	8	=	10
7	+	1	=	8							6	+	3	=	9	8	+	2	=	10
8	-	7	=	1	8	-	4		4]	9		6	=	3	10		8	=	2
8	-	1	=	7				,			9	-	3	=	60	10	-	2	=	8
2	+	6	=	8	1		8	=	9		4	+	5	-	9	3	+	7	=	10
6	+	2	=	8	3	+	1	-	9		5	+	6	=	9	7	+	3	=	10
8	-	6	=	2	9	-	8	=	1		9		5		4	10	-	7	=	3
8	-	2	-	6	9	-	1	_	8		9	-	4	=	5	10	-	3	=	7
3	+	5	=	8	2	+	7		9		4	+	9	=	10	4	+	6	=	10
5	+	3	=	8	7	+	2	=	9		9	+	1	=	10	6	+	4	=	10
8	-	5	=	3	9	-	7	=	2		10	-	9	=	1	10	-	6	=	4
8	-	3	=	5	9	-	2	-	_7_		10	-	1	=	9	10	-	4	=	6
										0										
22	ΠŪ			C.S.	33		<mark>)</mark> 0		C I S		153	πIJ	20		ols.					GLS.
5	+	5	=	10	7	+	4	=	11	1	8	+	4	=	12	9	+	4	=	13

					<u> 166</u>	
5	=	10	7	+	4	=
			4	+	7	=
5	5 =	5	17	-	4	=
			11	-	7	=
2	2 =	11	6	+	5	=
9) =	11	5	+	6	=
2	2 =	9	11	-	5	=
9) =	2	11	-	6	=
3	; =	11	9	+	3	=
8	3 =	11	3	+	9	=
3	5 =	8	12	-	3	=
8	5 =	3	12	-	9	=

11 -

+

+

-

+

+

-

-

Fan		of	Fa	NS.	Ea.	mil	y O	Fa	cts
8	+	4	=	12	9	+	4	=	13
4	+	8	=	12	4	+	9	=	13
12	-	4	=	8	13	-	4	=	9
12	-	8	=	4	13	-	9	=	4
7	+	5	=	12	8	+	5	=	13
5	+	7	=	12	5	+	8	=	13
12	-	5	=	7	13	-	5	=	8
12	-	7	=	5	13	-	8	=	5
6	+	6	=	12	7	+	6	=	13
					6	+	7	=	13
12	-	6	=	6	13	-	6	=	7
					13	-	7	=	6

- 74 -

Fei		y o		613	Ēa	mi	y 0	120	GIS.
9	+	5	=	14	9	+	6	=	15
5	+	9	=	14	6	+	9	=	15
14	-	5	=	9	15	-	6	=	9
14	-	9	=	5	15	-	9	=	6
8	+	6	=	14	8	+	7	=	15
6	+	8	=	14	7	+	8	=	15
14	-	6	=	8	15	-	7	=	8
14	-	8	=	6	15	-	8	=	7
7	+	7	=	14	9	+	7	=	16
					7	+	9	=	16
14	-	7	=	7	16	-	7	=	9
					16	-	9	=	7

Fa		V O	82:	cts.			
8	+	8	=	16			
16	-	8	=	8			
9	+	8	=	17			
8	+	9	=	17			
17	-	8	=	9			
17	-	9	=	8			
9	+	9	=	18			
18	-	9	-	9			
			7				
							-
					5		•

1 to 100 Number Matrix:

1	2	3	4	5	6	. 70	8	9	6
11	12	13	1	15	16	17	18	19	20
21	22	23	24	25	26	27	2.8	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Multiplication & division facts presented in this resource.

	• • • • •				1	• . • . • . •		<u></u>	• • • • • •	
		· 2X	••••••				••••	· 2X		
1	Х	2	=	2		2	÷	2	=	1
2	х	2	=	4		4	÷	2	=	2
3	х	2	=	6		6	÷	2	=	3
4	х	2	=	8		8	÷	2	=	4
5	х	2	=	10		10	÷	2	=	5
6	х	2	=	12		12	÷	2	=	6
7	х	2	=	14		14	÷	2	=	7
8	х	2	=	16		16	÷	2	=	8
9	х	2	=	18		18	÷	2	=	9
10	х	2	=	20		20	÷	2	=	10

$\begin{array}{cccccccccccccccccccccccccccccccccccc$			3x					3x		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1	Х	3	=	3	3	÷	3	=	1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2	х	3	=	6	6	÷	3	=	2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3	х	3	=	9	9	÷	3	=	3
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4	х	3	=	12	12	÷	3	=	4
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	5	х	3	=	15	15	÷	3	=	5
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	6	х	3	=	18	18	÷	3	=	6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7	х	3	=	21	21	÷	3	=	7
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	8	х	3	=	24	24	÷	3	=	8
$10 \times 3 = 30 30 \div 3 = 10$	9	х	3	=	27	27	÷	3	=	9
	10	х	3	=	30	30	÷	3	=	10

		4x			
1	х	4	=	4	1 [
2	х	4	=	8	
3	х	4	=	12	
4	х	4	=	16	
5	х	4	=	20	
6	х	4	=	24	
7	х	4	-	28	
8	х	4	=	32	1
9	X	4	-	36	
10	X	4	=	40	

•••••		4 x			
4	÷	4	=	1	
8	÷	4		2	
12	÷	14	=	3	
16	÷	4	=	4	
20	₽÷.	4	=	5	
24	÷	4	=	6	
28	÷	4		$\overline{7}$	
32	÷	4 <	=	8	
36	÷	4		9	
40	4	4		10	

		7x					7x	••••	
1	Х	7	=	7	7	÷	7	=	1
2	х	7		14	14	÷	7	;	2
3	х	7	_ _ _ `	21	21	÷	7	-	3
4	x	7	_ = \	28	28	÷	7	=	4
5	X	7	_	35	35		7		5
6	x	7~	=	42	42	÷	7	-	6
7	x	7	=	49	49	÷	7	=	7
8	х	7	=	56	56	÷	7	=	8
9	х	7	=	63	63	÷	7	=	9
10	х	7	=	70	70	÷	7	=	10



		9x					9x		
1	х	9	=	9	9	÷	9	=	1
2	х	9	=	18	18	÷	9	=	2
3	х	9	=	27	27	÷	9	=	3
4	х	9	=	36	36	÷	9	=	4
5	х	9	=	45	45	÷	9	=	5
6	х	9	=	54	54	÷	9	=	6
7	х	9	=	63	63	÷	9	=	7
8	х	9	=	72	72	÷	9	=	8
9	х	9	=	81	81	÷	9	=	9
10	х	9	=	90	90	÷	9	=	10

		10x			1		::::	10x		
1	Х	10	=	10		10	÷	10	=	1
2	х	10	=	20		20	÷	10	=	2
3	х	10	=	30		30	÷	10	=	3
4	х	10	=	40		40	÷	10	=	4
5	Х	10	=	50		50	÷	10	=	5
6	х	10	=	60		60	÷	10	=	6
7	х	10	=	70		70	÷	10	=	7
8	Х	10	=	80		80	÷	10	=	8
9	х	10	=	90		90	÷	10	=	9
10	Х	10	=	100		100	÷	10	=	10

		5x						5x		
1	х	5	"	5		5	÷	5	=	1
2	х	5	_=	10		10	÷	5		2
3	х	5	-	15		15	÷	5		3
4	Х	5		20		20	÷	5		4
5	X	5		25		25	÷	5	=	5
6	X	5	-	30		30	÷	5	=	6
7	X	5	=	35		35	÷	5	=	7
8	х	5	=	40	P	40	÷	5	=	8
9	х	5	=	45		45	÷	5	=	9
10	Х	5	=	50		50	÷	5		10

	W.	б х						Y 6X		
1	X	6	=	6		6	÷	6	-	1
2	х	6	=	12		12	÷	6	=	2
3	X	6	=	18		18	÷	6	=	3
4	х	6	=	24	K	24	÷	6	=	4
5	х	6	=	30		30	÷	6	=	5
6	х	6		36		36	÷	6	=	6
7	х	6	-	42		42	÷	6	=	7
8	x	6		48		48	÷	6	=	8
9	х	6	=	54		54	÷	6	=	9
10	X	6	=	60		60	÷	6	=	10

		8x	•				8x		
1	Х	8	=	8	8	÷	8	=	1
2	х	8	=	16	16	÷	8	=	2
3	х	8	=	24	24	÷	8	=	3
4	х	8	=	32	32	÷	8	=	4
5	х	8	=	40	40	÷	8	=	5
6	х	8	=	48	48	÷	8	=	6
7	х	8	=	56	56	÷	8	=	7
8	х	8	=	64	64	÷	8	=	8
9	х	8	=	72	72	÷	8	=	9
10	х	8	=	80	80	÷	8	=	10

