



# **Curriculum Strand** Worksheets

## A Teacher's resource supplied as PHOTOCOPY MASTERS







This resource contains

## **40 CURRICULUM STRAND** WORKSHEETS

which covers Level 3 of the achievement objectives as outlined in the Mathematics in the New Zealand Curriculum for the strands ... Number & Algebra, **Measurement & Geometry** and Statistics.







This resource is to be used in conjunction with Book 5a and supports the **Numeracy Professional Development Project Stages 6 & 7** 

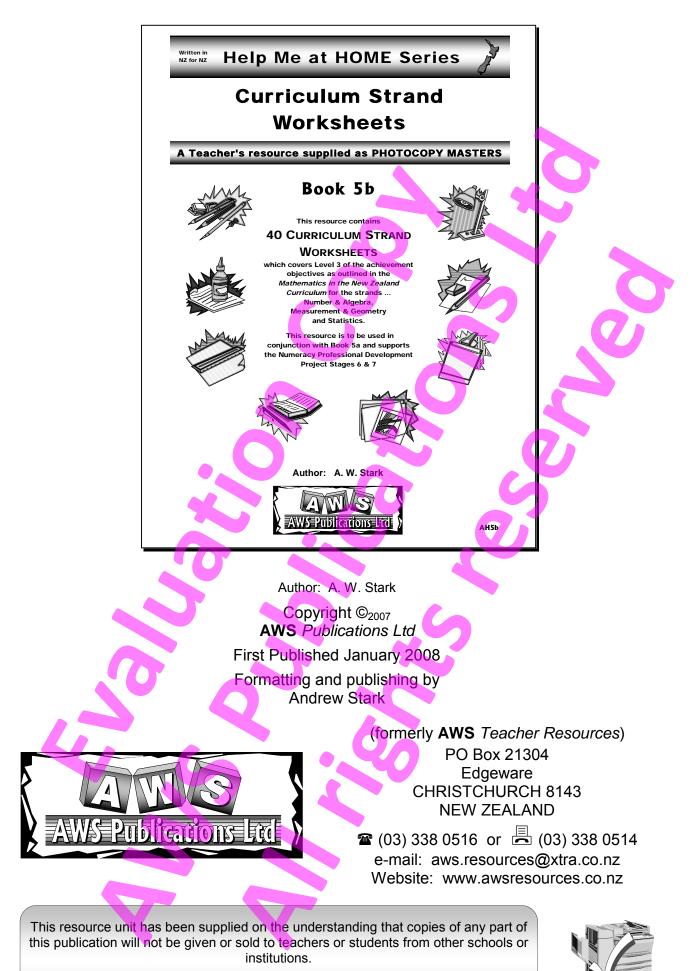




Author: A. W. Stark







This resource unit may be used as a master, and therefore can be photocopied, only by the school or institution that has purchased this resource unit.



### Note from the author:

About this resource ...

## Help Me at Home Curriculum Strand Worksheets

### - Book 5b (Code: AH5b)

is one of a series of TWO sets of 8 resources and has been written to cover 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.

Resource **Book 5b** is to be used in conjunction with a second resource, **Book 5a**.

## Help Me at Home Number Knowledge Worksheets

- Book 5a (Code: AH5a)

Book 5a has been written to support the Numeracy Professional Development Project currently being implemented within many New Zealand schools.

#### **Background Information:**

The	Numeracy	Professional	Developm	ent	Projec	t being
· · ·	-	schools involves	a <b>knowledge</b>	sectio	on and a	strategy
secti	on.					
The	manulada a a a	tion introduces a	ad raviaga the	kov r	umbar k	noulodao

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 the

The aim of this project is to equip them to be successful at Mathemat

In order for this to occur, it is es number knowledge.

this table.	5	Early Additive Part-Whole			
p students with various strategies that allow	6	Advanced Additive Part-Whole			
atics.	7	Advanced Multiplicative Part-Whole			
essential for students to be confident with	8	Advanced Proportional Part-Whole			
nowing the basic numeracy facts, it is difficult for a student to progress through the strategy stages.					

0

1

2

3

4

Strategy Stages

Emergent One-to-one Counting

Counting from One on Materials

Counting from One by Imaging

Advanced Counting (Counting On)

Without the 'knowledge', that is, kn 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 children learn the numeracy facts is not as important as knowing them. These resources are designed to systematically introduce and revise the key numeracy facts.

How to use t	hese resources:	Book	Resource Code	Suggested Year Group (underlined)	Strategy Stages covered	Curriculum Level
There are 2 sets o	f 8 resources in this series.	1a / 1b	AH1a & AH1b	1 - <u>2</u> - 3	1 to 3	1
The table opposite shows the suggested Year Group each book can be used at, but this is only		2a / 2b	AH2a & AH2b	2 - <u>3</u> - 4	4	1 / 2
		3a / 3b	AH3a & AH3b	3 - <u>4</u> - 5	4 & 5	2
a suggestion.		4a / 4b	AH4a & AH4b	4 - <u>5</u> - 6	5&6	2/3
Example: 1 - <u>2</u> - 3 means it is likely to be		5a / 5b	AH5a & AH5b	5 - <u>6</u> - 7	6 & 7	3
numb	at Year 2, the bold underlined er.	6a / 6b	AH6a & AH6b	6 - <u>7</u> - 8	6 & 7	3 / 4
		7a / 7b	AH7a & AH7b	7 - <u>8</u> - 9	6 to 8	4
		8a / 8b	AH8a & AH8b	8 - <u>9</u> - 10	6 to 8	5

### Why so many resources?

### A note for Teachers

There are 2 sets of 8 resources in this series to allow you to have a different book available each year for classes which are made up of mixed year groups. This will stop the problem of a student saying "We used this book last year!". Which book you use for your class is up to your professional judgement, taking into account which resource classes above or below your class might use.

## How to use these TWO resources - Book 5a & Book 5b

## Book AH5a 40x Number Knowledge Worksheets

- This resource systematically introduces and revises the number knowledge, presented in various formats.
- Designed to reinforce the Numeracy Professional Development Project, it is intended that one worksheet per week is completed in order from worksheet 1 to worksheet 40.
- One worksheet per week is to be done in conjunction with one worksheet selected from the Curriculum Strand Worksheet resource (Book 5b).
- Book 5a covers the Strategy Stages 6 & 7.

Select ONE worksheet from each book to make up your homework worksheet

## Book AH5b 40x Curriculum Strand Worksheets

- The **40 worksheets** in this resource 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.
- One worksheet is selected per week to be done in conjunction with one worksheet from the Number Knowledge Worksheet resource (Book 5a).
- The worksheet selected per week relates to the topic being covered at school or as revision.
- Book 5b covers Level 3 of the Curriculum.



#### Note to Teachers:

The aim of these TWO resources (AH5a & AH5b) are to provide the classroom teacher with a systematic and comprehensive series of worksheets, which form the basis of your mathematics homework.

#### Worksheets from Book 5a:

Photocopy weekly and sequentially in order, a Number Knowledge worksheet from Book 5a. On the Number Knowledge worksheet, pupils can record their Name, Term, Week and the Curriculum Strand Worksheet that is also to be done that week.

#### Worksheets from Book 5b:

Select and photocopy the appropriate Curriculum Strand Worksheet required, as determined by what you are currently teaching in class or a topic you are revising. In the table on the next page, record the curriculum worksheet being used each week.

#### Extension Activity for Parents:

•

- Each Curriculum Strand Worksheet has an AT HOME activity as an extension activity for parents or caregivers.
- 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.
- Either staple the two worksheets together or create a double sided homework sheet.

## Book 5a (AH5a) - Number Knowledge Worksheets

Number Knowledge Worksheet	Term & V Enter details	Neek	Curriculum Strand Worksheet Enter the worksheet number issued each week	Number Knowledge Worksheet		& Week details below	Curriculum Strand Worksheet Enter the worksheet number issued each week
1	Term: We	ek:		21	Term:	Week:	5
2	Term: We	ek:		22	Term:	Week:	
3	Term: We	ek:		23	Term:	Week:	
4	Term: We	ek:		24	Term:	Week:	0
5	Term: We	ek:		25	Term:	Week:	
6	Term: We	ek:	C	26	Term:	Week:	
7	Term: We	ek:		27	Term:	Week:	
8	Term: We	ek:		28	Term:	Week:	
9	Term: We	ek:		29	Term:	Week:	
10	Term: We	ek:		30	Term:	Week:	
11	Term: We	ek:	<b>N</b>	31	Term:	Week:	
12	Term: We	e <mark>ek</mark> :	N.	32	Term:	Week:	
13	Term: We	ek:	X	33	Term:	Week:	
14	Term: We	ek:		34	Term:	Week:	
15	Term: We	ek:		35	Term:	Week:	
16	Term: We	ek:		36	Term:	Week:	
17	Term: We	ek:		37	Term:	Week:	
18	Term: We	ek:		38	Term:	Week:	
19	Term: We	ek:		39	Term:	Week:	
20	Term: We	ek:		40	Term:	Week:	

## Book 5b (AH5b) - Curriculum Strand Worksheets

(Tick next to worksheet as each ONE worksheet is issued per week)

Tick
asuring & Tick
0
apes
apes
ections
eferences
tion
ements
tigation
ly charts
ograms
s & time
rage) and
and the
les
periments



# **Curriculum Strand Worksheets Section**

## (Level 3)

# Number & Algebra,

# Measurement & Geometry,

# and Statistics

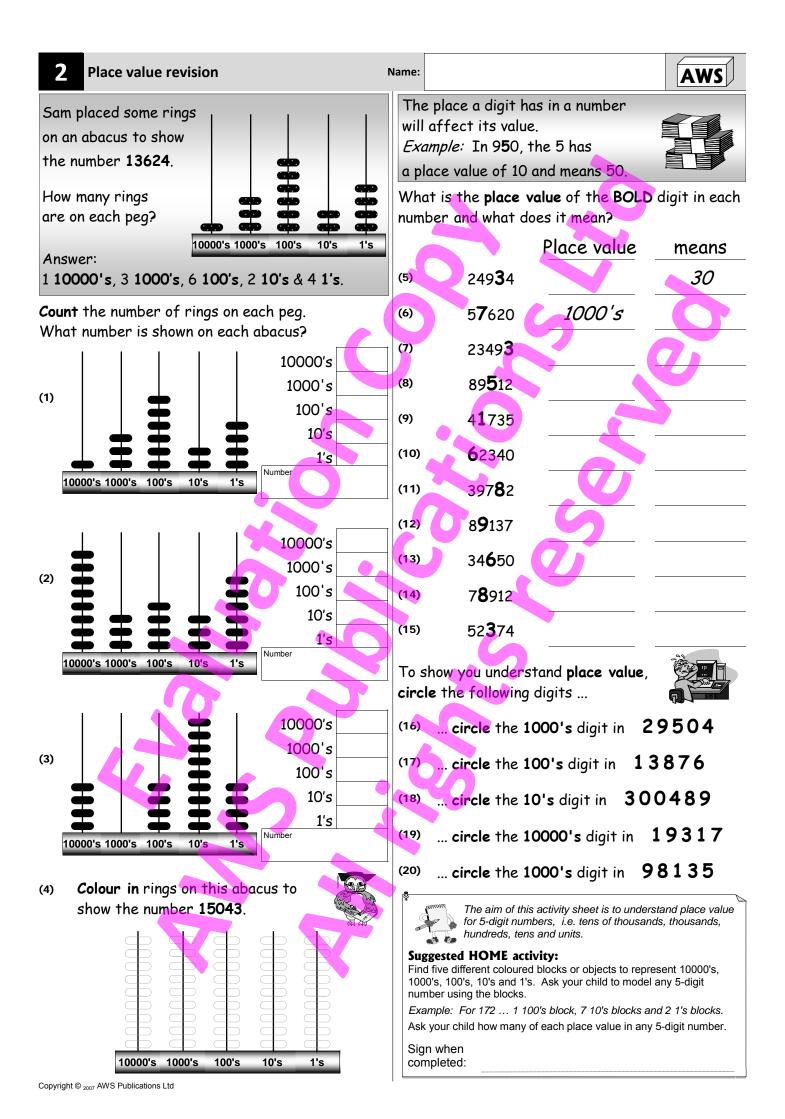
# Worksheets

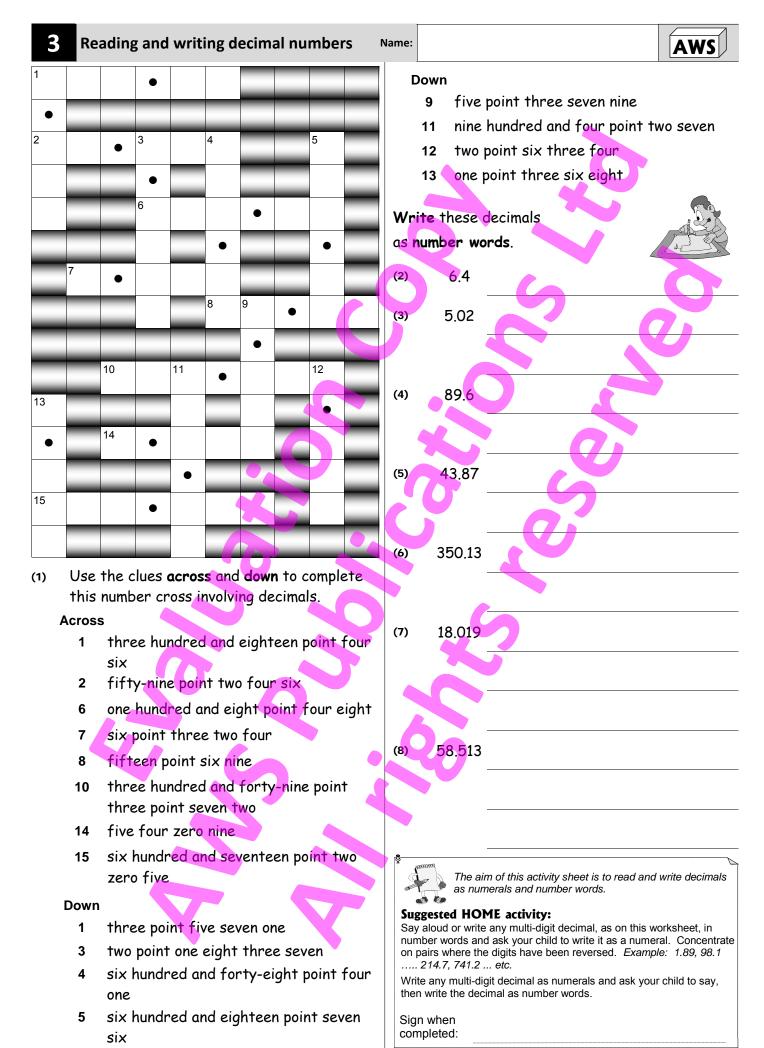
Select **ONE** Curriculum Strand Worksheet per week from this book (AH5b) to be completed in conjunction with **ONE** Number Knowledge Worksheet,

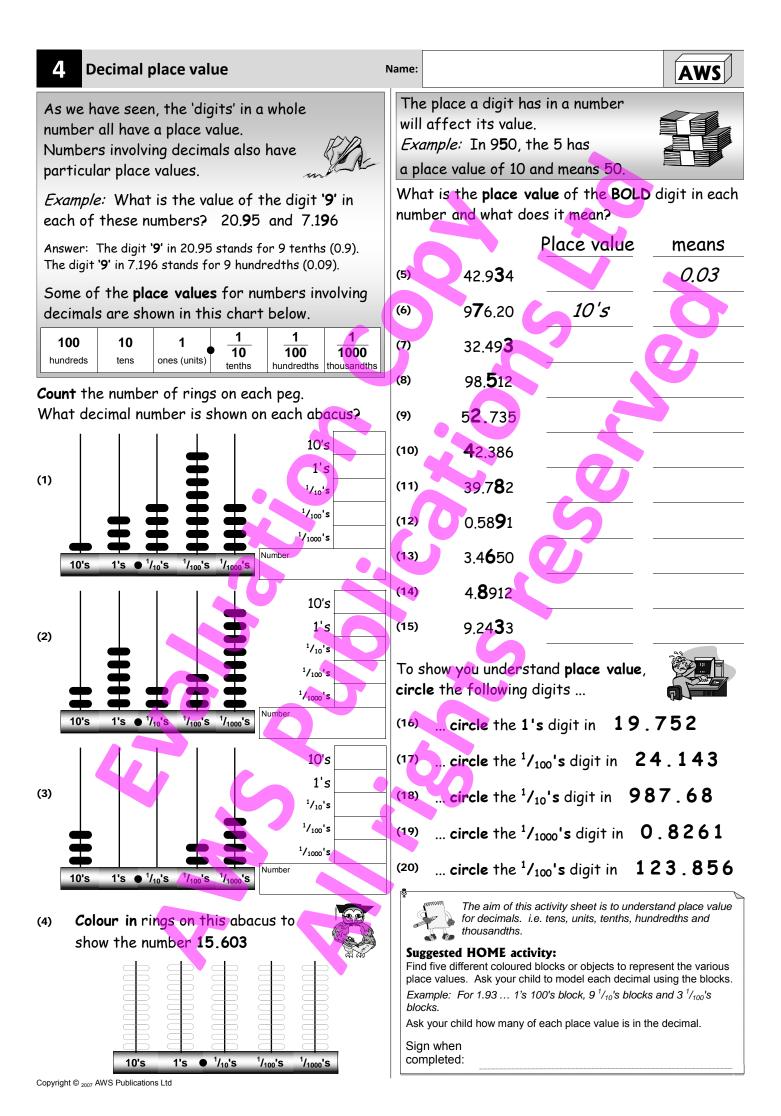
selected from Book 5a (AH5a).

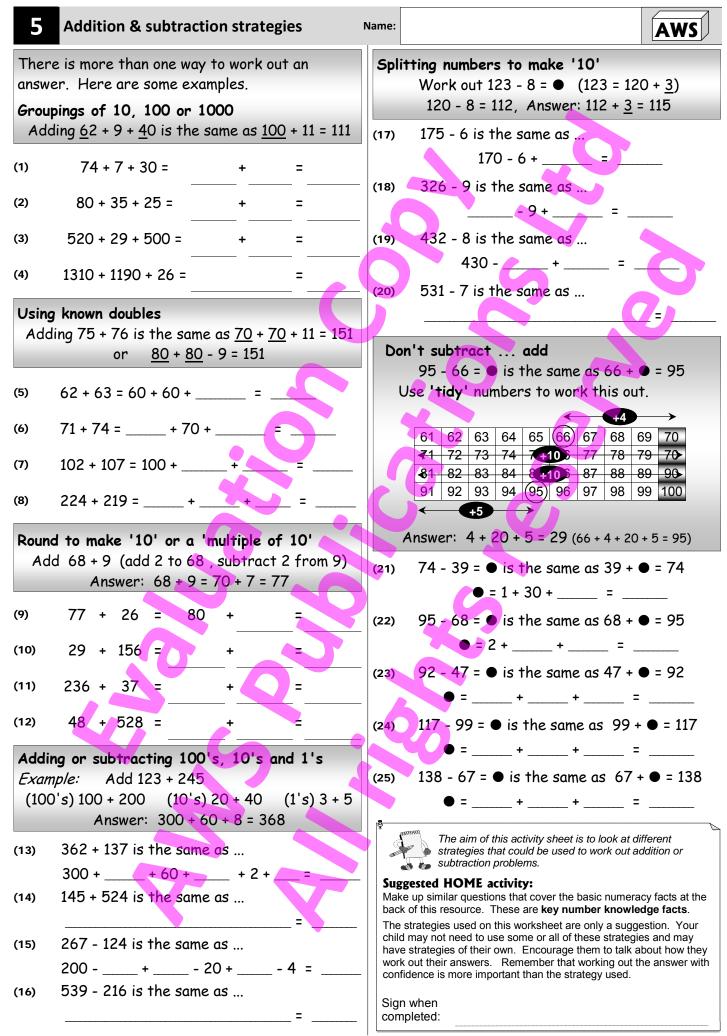
Record your selection in the table at the front of this resource.

1	Read	ing and writ	ing wh	ole numbe	rs	Name: AWS
		1	_			Down
_		_	_	_		6 seventy-three
_			_			7 six thousand and fifty-four
	2			3		9 eighty-nine thousand and sixteen
			_			10 (thirty-one thousand, nine hundred and
		4				fifty-four
				5	6	11 eighty-nine thousand, three hundred and
		_	_			forty
			7			13 one thousand, six hundred and thirty-
_	8		-	_		eight
				_		
_						Write these numerals
9	_	10	-	11		as number words.
Ũ	_					
12					13	(2) 65
-	14		_	-		_ (3) 83
		,				(4) 316
				15		
10		_	_			
16						(5) 1097
					· · ·	
(1)		ne clues acro			· · ·	
		Imber cross	Involv	ing whole h	umpers.	
	Across					(6) 8302
	1	twenty-for		Country and		
	2 3	one hundre five thouse		•		
	4	nine hundro				
	5	two thousa			and	(7) 15360
		seventy				
	7	sixty-one				
	8	seventy-th	ree th	ousand, fiv	ve hundred	
		and twenty				(8) 76002
	10	three hund	red ar	nd forty-ei	ght 🚽	
	12	ninety-two				
	14	six hundre		· ·		
	15	four thouse	ana, ni	ne nunareo	a and sixty	
	16	sixty-nine	thouse	ind two long	ndred and	The aim of this activity sheet is to read number words for
	10	fourteen				
	Down	,			Y	<b>Suggested HOME activity:</b> Say aloud or write any multi-digit numeral, as on this worksheet, in
	1 1	two hundre	d and	thirty-cou	en	number words and ask your child to write it as a numeral. Concentrate on pairs where the digits have been reversed. <i>Example: 423, 324</i>
	2	sixteen the		•		2147, 7412 etc.
	£	eighty-seve				Write any multi-digit number as numerals and ask your child to say, then write the numeral as number words.
	3	five thouse		ur hundred	d and	Sign when
	-	twenty-one			-	completed:
Copyrigh	nt © <sub>2007</sub> AWS F	•				





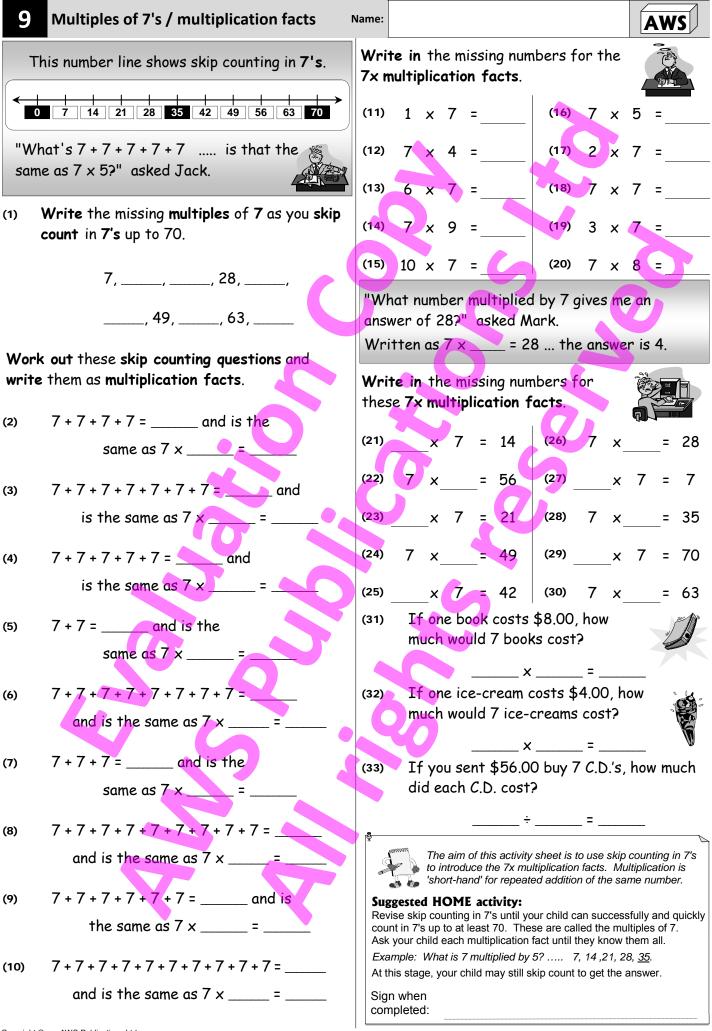


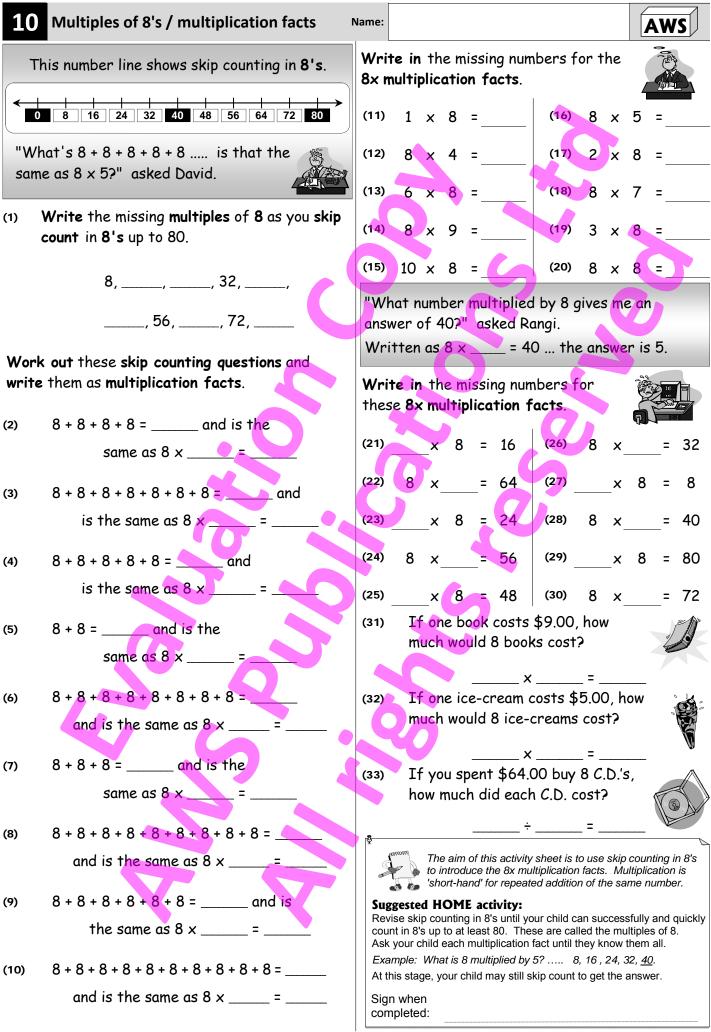


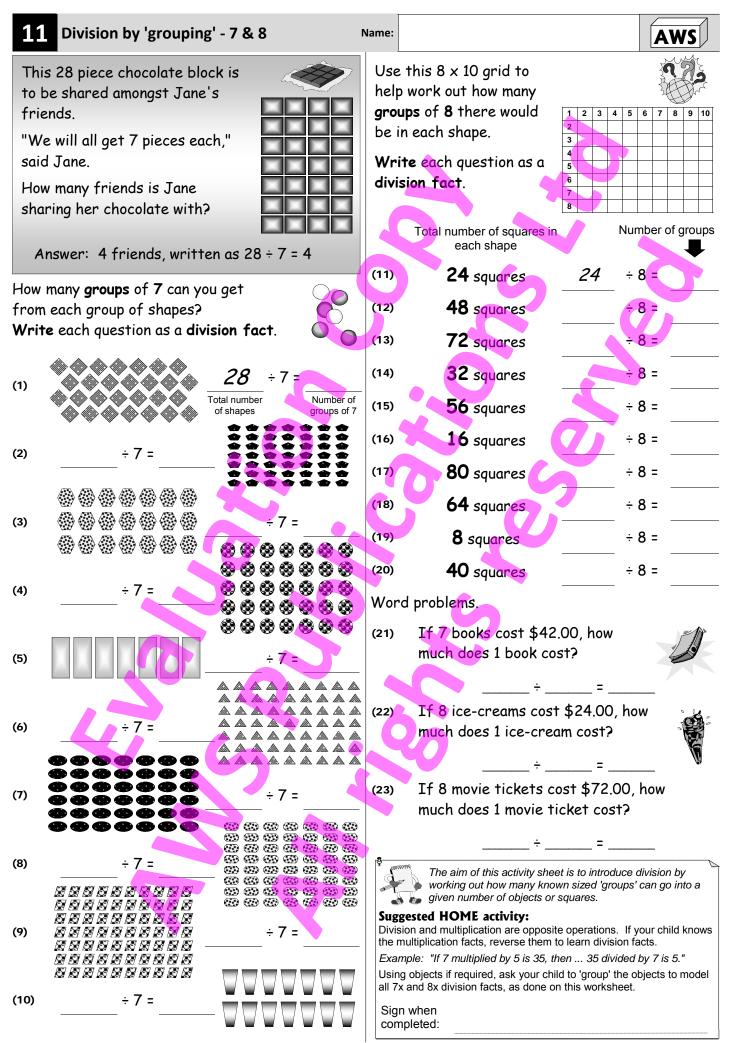
6 More strategies	Name:	AWS
Don't subtract add $94 - \bullet = 67$ is the same as $67 + \bullet = 94$ Use 'tidy' numbers to work this out. 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 430 Add a 'large' tidy number, then count back Answer: $30 - 3 = 27 (67 + 30 = 97 - 3 = 94)$	Both sides are equalFind the missing number 4(add 2 to 45 because 30 is 2Answer: 45 + 32 = 47 + 30Find the missing number 4(subtract 3 from 78 because 37Answer: 75 - 37 = 78 - 40Find the missing numbers.(15)19 + =	2 less than 32) - 37 = 78 - 40 is 3 less than 40)
(1) 134 - 79 = ● is the same as 79 + ● = 134 ● = 60 =	(16) 89 + 25 = 80 + (17) - 24 =	
(2) 275 - 86 = ● is the same as 86 + ● = 275 ● = =	(18) 47 + 86 =	+ 83
(3) 521 - 57 = ● is the same as 57 + ● = 521	(19) 95 - 28 = 100	
(4) $347 - 89 = \bullet$ is the same as $89 + \bullet = 347$ $\bullet = \_\_\_\ \_\_= = \_\_=$	<b>Work out</b> the problems using any strategy you like.	
Reversing order	(20) 89 - 43 =	=
● + 24 = 41 can be written as 24 + ● = 41,	(21) 112 + 79 =	=
then work out using any strategy	(22) 91 - 76 =	=
(5) $\bullet + 26 = 82$ 26 + = (6) $\bullet + 49 = 93$ + =	(23) 134 - 86 =	=
	(24) 58 + 116 =	=
(7) • + 58 = 114 $+$ =	(25) 45 + 64 + 19 =	=
(8) + 67 = 245 + =	(26) 176 - 124 =	=
(9) • + 118 = 341 + =	(27) 63 + 149 =	=
Equal additions to make 'tidy' numbers Subtract 157 - 98 (add 2 to both numbers) Answer: 157 - 98 = 159 - 100 = 59	(28) $27 + 43 + 62 =$	
(10) 63 - 28 = 65 - =	strategies that could be used to use subtraction problems.	work out addition or
(11) 182 - 65 = - =	Suggested HOME activity: Make up similar questions that cover the bas back of this resource. These are key numb	er knowledge facts.
(12) 276 - 37 = =	The strategies used on this worksheet are of child may not need to use some or all of the have strategies of their own. Encourage the	se strategies and may m to talk about how they
(13) 354 - 96 =	work out their answers. Remember that wo confidence is more important than the strate	
(14) 421 - 89 = =	Sign when completed:	
Copyright © 2007 AWS Publications Ltd		

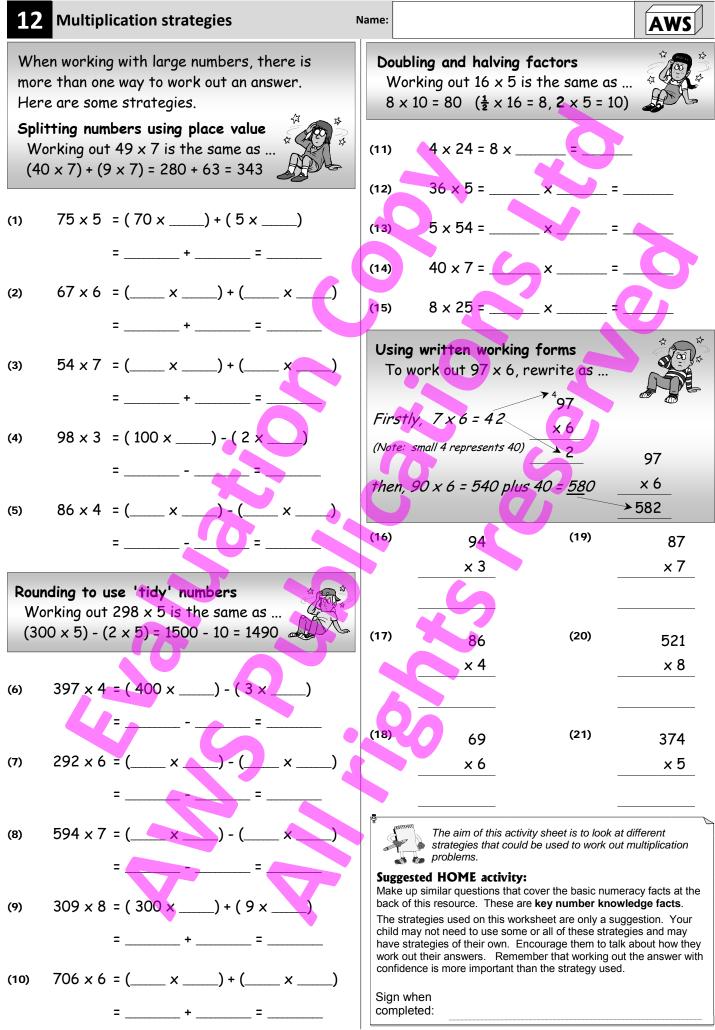
7	Ordering decimals		Name:						AWS
(1)	Write these decimals in order from smallest to largest.	1.56 3.45				lled by a ghts of			e e e e e e e e e e e e e e e e e e e
	,,	12.6 0.95	Hon	-	Α	В	С	D	Ε
	,,	8.04	Weig		-	1.012kg		-	-
Marl	<pre>,</pre>	18.3	5	jar?		weight			
	throwing distances are in the table. Arow 1 2 3 4	\$		jar?		weight			0
Dis (2)	tance 23.65m 23.37m 23.48m 23.71 What was the distance of his	m 2 <mark>3.5</mark> 2m	(12)		at is the ey jar?	weight	of the 3	rd lighte	est
(3)	longest throw? What was the distance of his	2	(13)		_	t of hon rying to	•		
	shortest throw?						0		
(4)	What was the length of the 2nd lo throw?	ngest	(14)			veight of htest to			rs in
(5)	Write the throwing distances in or longest throw to shortest throw.	_,		-		gits in the largest	number		to 30.
		33.4 37.7		Use	these d				
	This table shows3the results of a 200m4race, run in 8 lanes.56	36.3 31.9 34.4 30.1				4   1   three c 5, in ord			
	The time is in seconds and 7 there were eight runners. 8	35.8 32.9	ģ	larg	est.				
(6)	In which lane was the fastest runner?					, 15	5.0000,	.,	,
(7)	In which lane was the 7th fastest runner?		୍ର ଜୁ ଜୁ		The sim of	this activity :	sheet is to le	,	r decimals
(8)	What were the times for 1st, 2nd	and 3rd?			from smalle	est to largest as first, lasi	or largest to	smallest a	nd revise
(9)	Write the 200m race times in order fastest time to slowest time.	er from	Creat small <i>Exam</i> Make	e up to est to <i>ple: v</i> up sir	o six decima largest total <i>weight of a t</i> milar word p	als and ask y	<i>, 4.5g, 6.1g</i> above that ii	<i>5.8g 3.9g,</i> volve diffe	<i>4.7g etc.</i> rent weight,
				when					

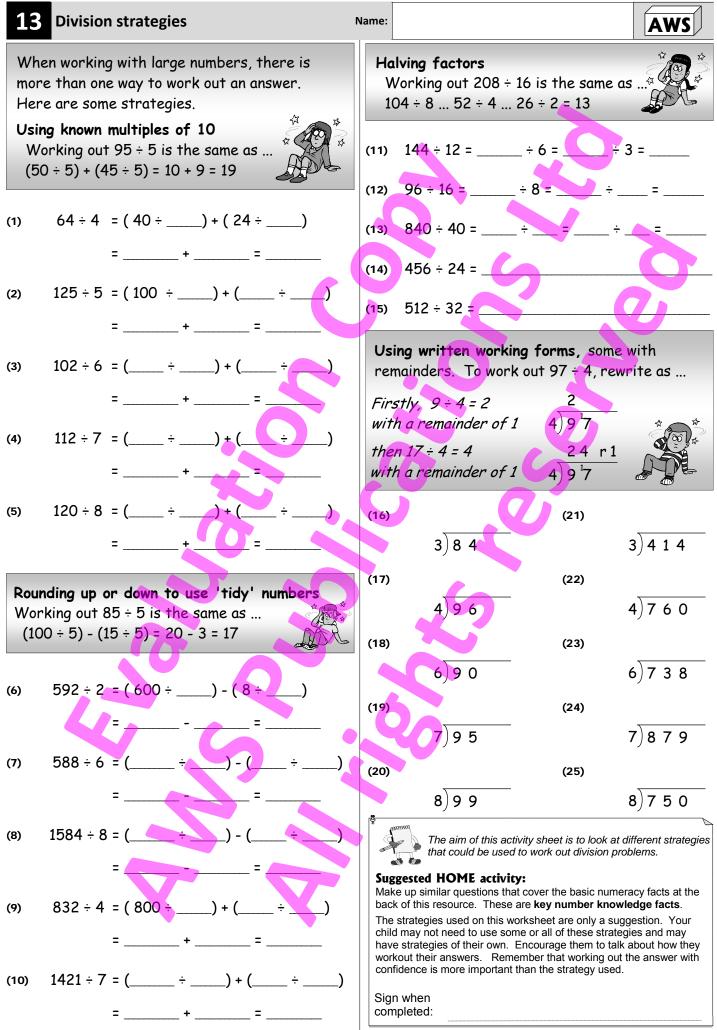
8	Rounding an	nd estimating	answers	Name: AWS		
make <i>Examj</i> Round	Rounding a money total to the nearest \$10 can make adding up money less difficult. <i>Example:</i> \$87 is almost \$90, \$82 is just over \$80 Round UP if the end number is 5, 6, 7, 8 or 9. Round DOWN if the number is 0, 1, 2, 3 or 4.			Round these money amounts to the nearest \$10, \$100 or 10 cents, then work out an answer. Add \$29 + \$32 Rounded \$30 + \$30 = \$60 Add \$117 + \$769 Rounded \$100 + \$800 = \$900 Add \$1.28 + \$4.53 Rounded \$1.30 + \$4.50 = \$5.80		
	Round each money amount to the nearest \$10.			The answer you get is called		
(1)	\$58	(6)	\$644	an estimate because it is not the exact answer. — Round each money amount to the nearest \$10,		
(2)	\$82	(7)	\$786	then work out an <b>estimated answer</b> .		
(3)	\$97	(8)	\$267	(31) \$81 + \$79 = + =		
(4)	\$74	(9)	\$573	(32) \$157 + \$52 = + =		
(5)	\$146	(10)	\$916	(33) \$98 - \$59 = =		
look ( <i>Examj</i> b <b>Round</b> (11) (12) (13) (14) (15) Wher	a rounding a nu at the 10's play but 4 <u>3</u> 7 rounds a these number 340 760 190 372 164 a rounding a de .), look at the	ce value numb ds up to 800 down to 400 ( rs to the near (16) (17) (18) (19) (20) ecimal to 1 de	ber. (5, 6, 7, 8, 9 ♠) 0, 1, 2, 3, 4 ♥) est 100. 729 806 477 303 826 ecimal place	(34) $$234 - $74 = $		
Exam	<i>ble:</i> 4.5 <u>6</u> rour but 2.4 <u>3</u> round:		(5, 6, 7, 8, 9 <b>↑</b> )	(42) \$19.95 - \$8.43 = =		
Round	these decima			The aim of this activity sheet is to round numbers /		
(21)	3.49	(26)	17.29	decimals to the nearest 10, 100 or 1 d.p. Rounded numbers can be used to work out estimated answers.		
(21)	7.62	(23)	28.84	<ul> <li>Suggested HOME activity:</li> <li>Call out money amounts of less than \$100 and ask your child to round them to the nearest \$10.00. Repeat the exercise for money amounts greater than \$100 and ask your child to round to the nearest \$100.00.</li> </ul>		
(23)	1.94	(28)	124.77	Example: Round \$27 to the nearest 10. Round \$286 to the nearest 100.		
(24)	3.77	(29)	133.65	Ask your child to round 2,3, 4 or more numbers to the nearest 10, then have them add them up to come up with an estimated answer.		
(25)	1.64	(30)	813.21	Sign when completed:		
Copyright ©						











## **14** Fractions

An object cut into TWO equal sized pieces is said to be cut in half.

**One half** written as a fraction is  $\frac{1}{2}$ .

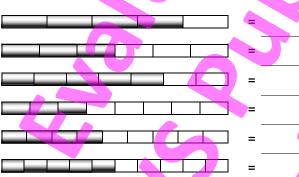
For any fraction, the **bottom number**, tells you how many times the 'whole ' object has been cut or divided up.

*Example:*  $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5}, \frac{1}{6}, \frac{1}{10}$  etc.

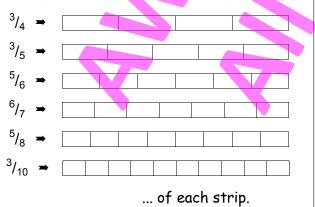
Write the missing fractions, words and numbers in this table. Choose from this box.

one sixth, one tenth, one half, one quarter $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{3}$ $\frac{1}{4}$								
Fraction	Written as	Means						
(1)	<u>1</u> 2	(2) out of						
one third	(3)	(4) out of						
(5)	(6)	1 out of 4						
one fifth	(7)	(8) out of						
(9)	(10)	1 out of 6						
(11)	<u>1</u> 10	(12) out of						

(13) Each strip below has been divided up. Beside each strip, write what fraction has been shaded in.



Show you understand fractions by shading ... (14)





(Written as  $\frac{1}{5}$  of 45 or  $\frac{1}{5} \times 45$ ) "Try what number multiplied by 5 is 45 or dividing 45 by 5," said Tom. (Written as  $5 \times \odot = 45$  or  $45 \div 5 = \odot$ .) Answer: 🚦 x 45 = 9, as 5 x 9 = 45 or 45 ÷ 5 = 9 )

## Work out each fraction of these numbers.

"What's one fifth of \$45?" asked Andy.

(15)	Find $\frac{1}{3}$ of 27 =	(as 3 x = 27)
(16)	Find $\frac{1}{5}$ of 45 =	(as 5 x = 45)
(17)	Find $\frac{1}{7}$ of 56 =	(as 7 x <u> </u>
(18)	Find 🕯 of 54 =	(as 54 ÷ 6 =)
(19)	Find <sup>1</sup> / <sub>8</sub> of 72 =	(as 72 ÷ 8 =)
(20)	Find $\frac{1}{10}$ of 160 =	(as 160 ÷ 10 =)
Find	ing a 'whole'.	

## Ben was given 8 chocolate squares which was $\frac{1}{5}$ of a block of chocolate. How

many squares in this block of chocolate?

×\_\_\_\_\_=

\_\_\_\_x \_\_\_\_= \_

If Helen spent \$10 which was  $\frac{1}{6}$  of her (22) pocket money, how much pocket money did she get?

A café has sold 9 bread rolls which was  $\frac{1}{7}$  of the bread rolls



available for sale that day. How many bread rolls did the café have for sale?

x \_\_\_\_ = \_\_

The aim of this activity sheet is to understand how to work out a fraction of a group of shapes or a number. Working 🚜 🦢 with fractions will either involve dividing or multiplying.

### Suggested HOME activity:

Find a collection of objects from around the house or use money totals and ask your child to find a fraction of each group / money total, using the fractions on this worksheet. Extend the exercise to include working out what a total group would be, given a fraction of it.

Example: If  $\frac{1}{2}$  of a group is 4, how big is the group. Answer: 12

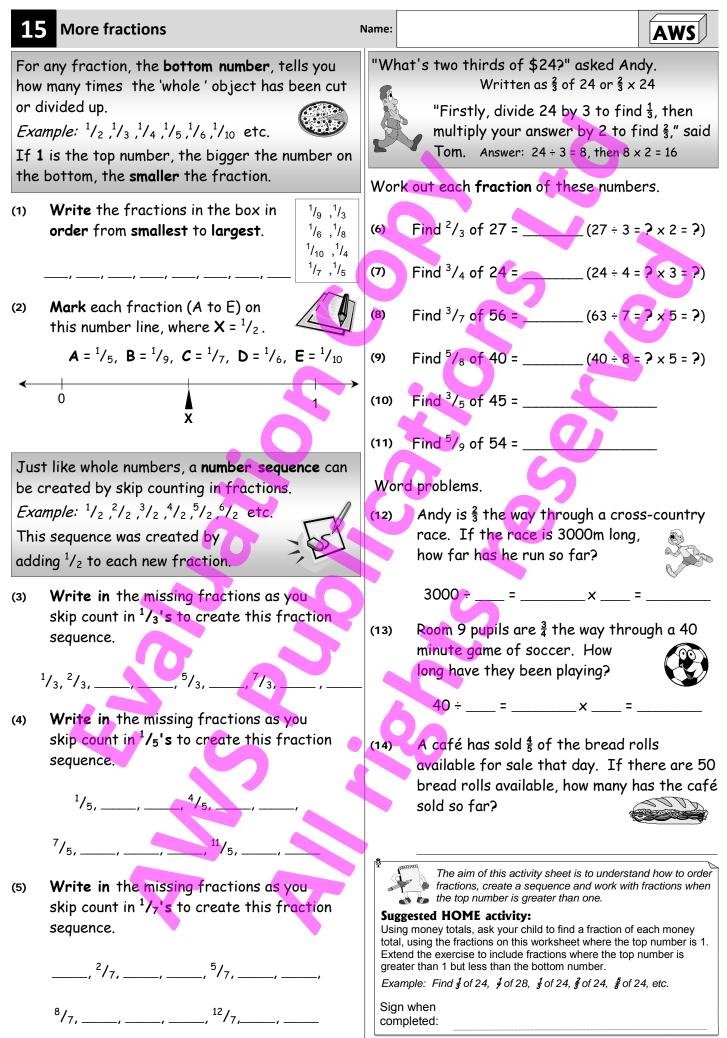
Sign when completed:





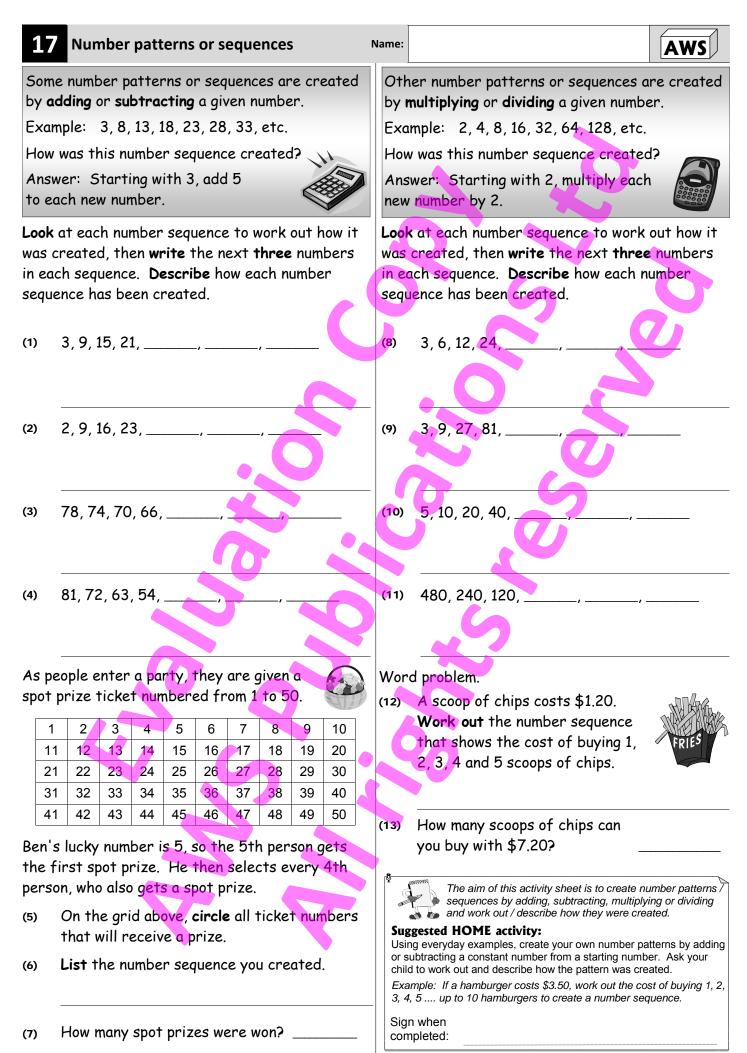
(21)

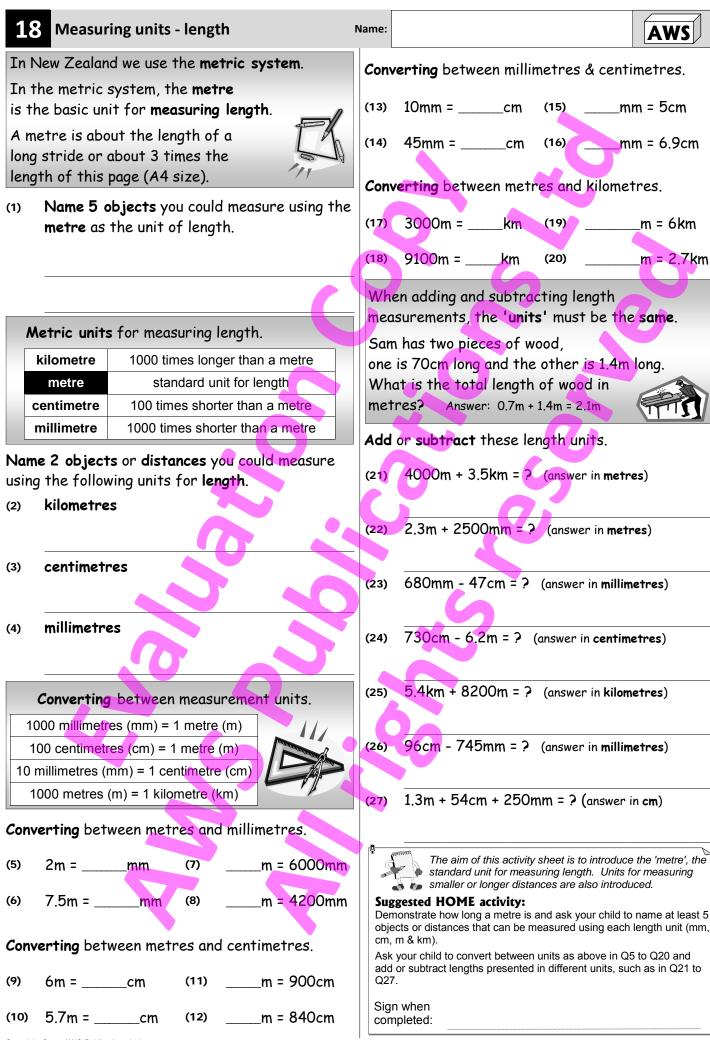
(23)



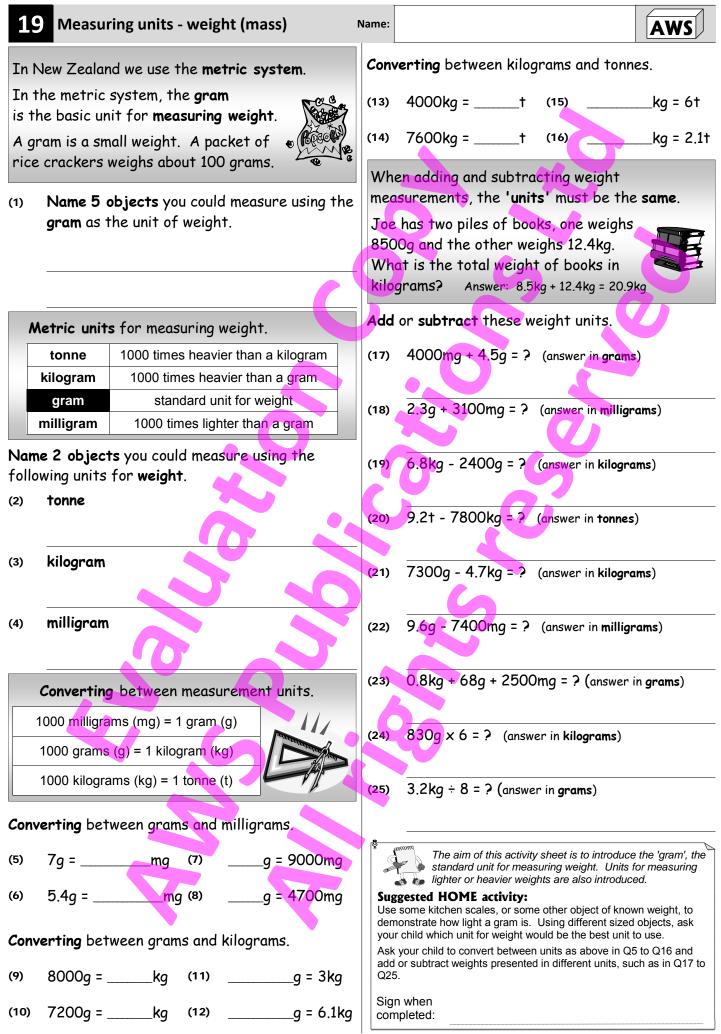
Copyright © 2007 AWS Publications Ltd

<b>16</b> Solving equations		Name: AWS
To solve an equation means to we number that would go where the <i>Examples:</i> 19 + a = 27, $b + 8 = 25$ , 28 - c = 6, $d - 9 = 12Remember that the total on eitheequals sign, must be the same.$	letter is.	Read each word problem, write an equation, then work out the answer. There may be more than one way to write the equation. (21) If Jack has \$80.00 and spends \$42.00, how much does he have left?
Use <b>any strategy</b> you like to <b>solve</b> these equations. Be prepared to t about what strategy you used. (1) 27 + <b>a</b> = 53		(22) Emma spends \$15.00 and has \$37.00 left. How much money did Emma start with?
(2) $35 + b = 61$ (3) $52 - c = 39$	b = c =	(23) Kate buys 10 books for \$145.00. How much did each book cost?
(4) $75 - d = 46$ (5) $e + 73 = 98$	d =	(24) Sam spends \$72.00 buying 6 C.D's. How much did each C.D. cost?
(6) $\mathbf{f} - 37 = 65$ (7) $\mathbf{g} + 19 = 106$ (8) $143 - \mathbf{h} = 69$	g = h =	<ul> <li>(25) Bill buys 8 movie tickets for \$72.00. How much does each movie ticket cost?</li> </ul>
(9) $i + 83 = 130$ (10) $j - 65 = 37$ (11) $20 \times k = 120$	i =	(26) In a new classroom there are only 19 chairs. If a class of 33 pupils are to use this room, how many more chairs will they need?
(12) $\mathbf{m} \times 6 = 54$ (13) $240 \div \mathbf{n} = 60$ (14) $400 \times \mathbf{p} = 1200$	m = n = p =	<ul> <li>(27) Mark is reading a book that has</li> <li>120 pages. If he has 53 pages to</li> </ul>
(15) $\mathbf{q} \div 10 = 110$ (16) $64 \div \mathbf{r} = 8$	r	go, how many has he read?
(17) <b>s</b> x 30 = 150 (18) <b>t</b> ÷ 5 = 95	s = t =	<ul> <li>involving + / - and x / ÷ numeracy facts.</li> <li>Suggested HOME activity:</li> <li>Make up word problems involving everyday events that can be written as equations. Have your child write an equation for each problem.</li> <li>Example: If I buy 3 C.D.'s for \$36.00, how much does each C.D. cost?</li> <li>If I have \$30.00 and spend \$21.00 on food, how much money do I have</li> </ul>
(19) $60 \div u = 12$ (20) $v \times 50 = 400$ Copyright © 2007 AWS Publications Ltd	u =	left? (Equations would be 3 x ? = 36 or 36 ÷ 3 = ? & 30 - ? = 21 or 21 + ? = 30)         Sign when completed:

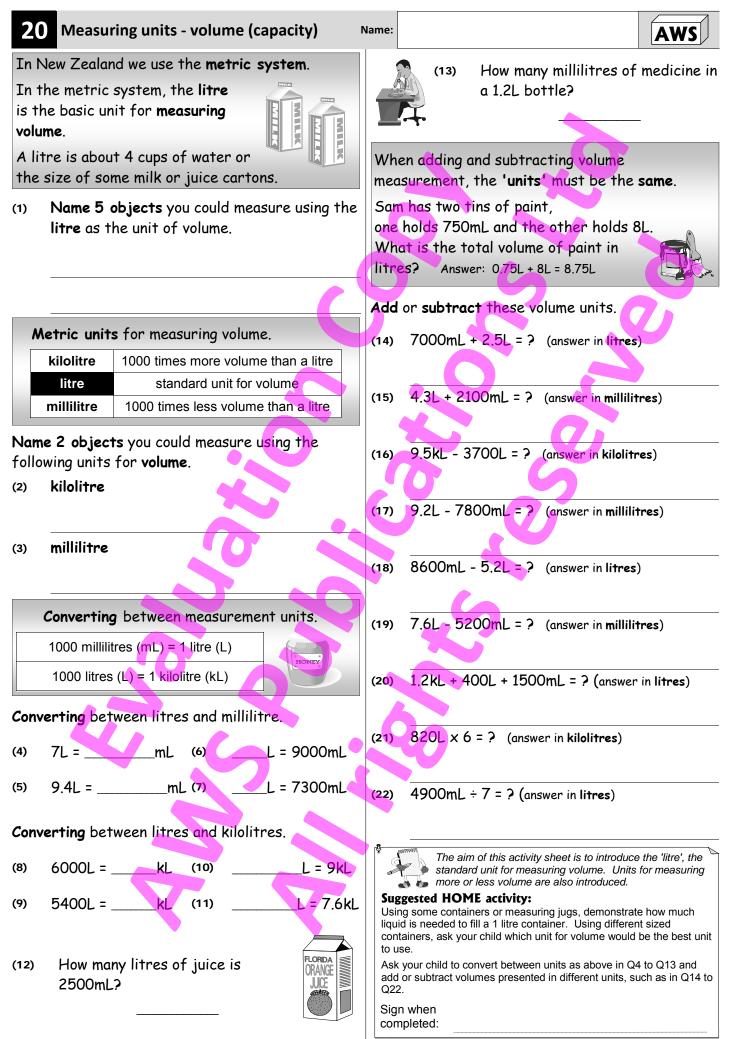


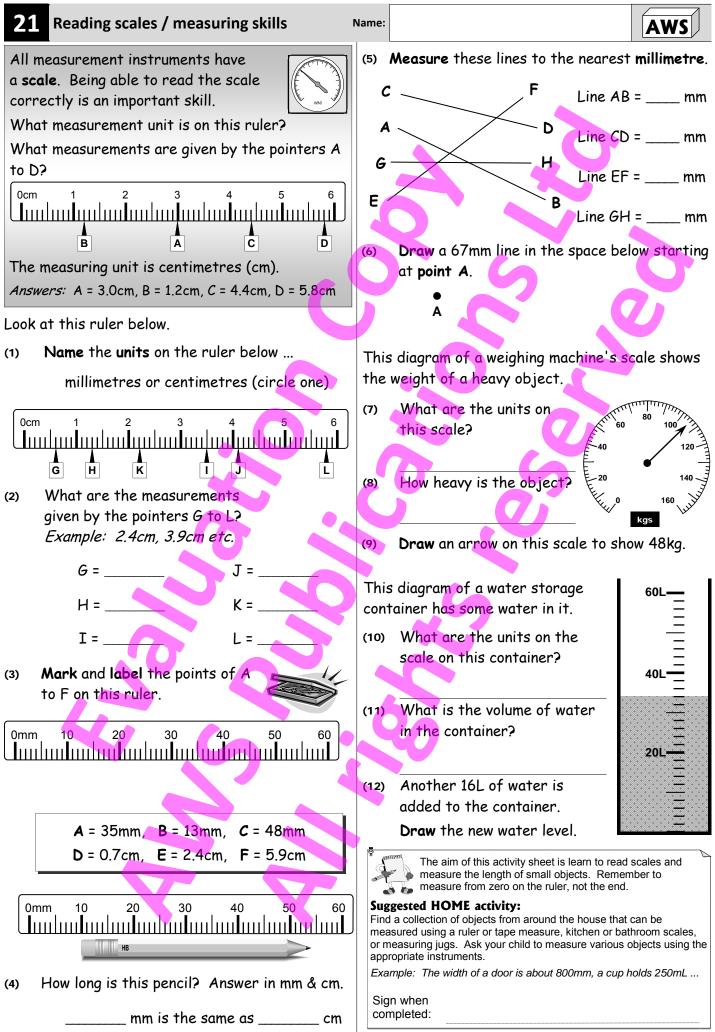


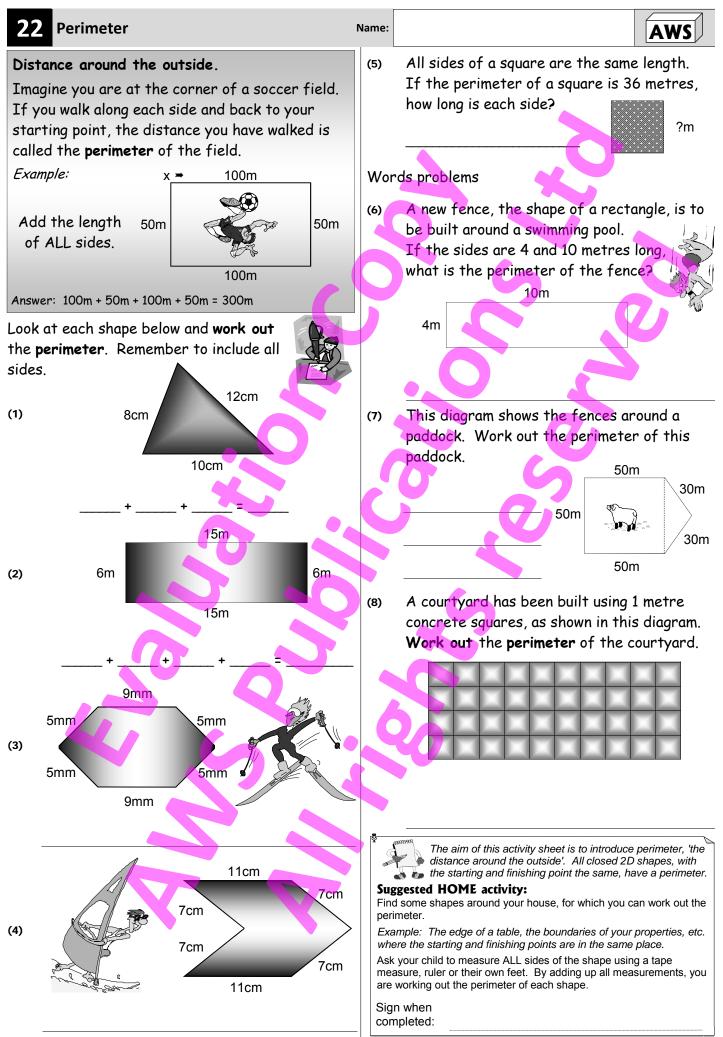
Copyright © 2007 AWS Publications Ltd



Copyright © 2007 AWS Publications Ltd







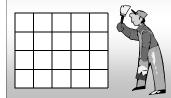
## 23 Area

Name:



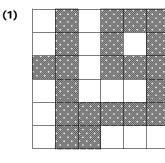
"If you can paint it, it has AREA," said Robert.

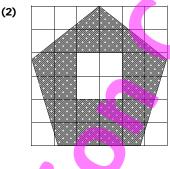
This shape has been divided up into squares.



Count the number of squares to work out the area of this shape. Answer: 20 squares

Work out the area of these shaded shapes by counting the 'whole' squares and estimating the area of the 'partly' shaded squares.





(3) **Draw** two different shapes in the grid below that both have an area of 12 squares.



This shape is made up of 1 row of 5 squares.

What is the area?

If the shape was made up of 4 rows of 5 squares, what would the area be?

Answers: 5 square units,  $4 \times 5 = 20$  square units

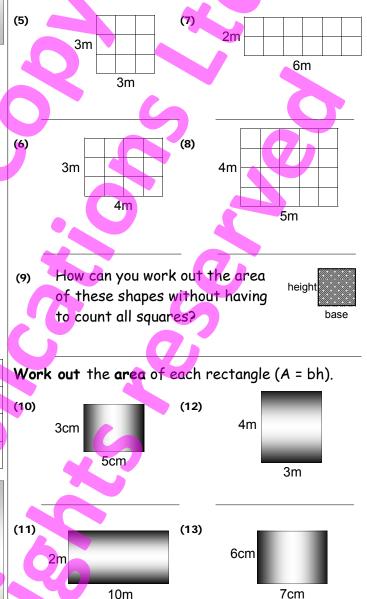
Work out the area of this rectangles by first counting the number of squares in ONE row.



1 row = \_\_\_\_\_ squares Area = \_\_\_\_ rows of \_\_\_\_\_ = \_\_\_\_\_ sq units The diagrams below are not drawn to scale, but imagine that each square is 1 square metre.

The units for your answers will be 'square m'. (Could be written as 'sq m' or m<sup>2</sup>)

Work out the area of each rectangle or square.



The are bas

The aim of this activity sheet is to revise the concept of area. For squares or rectangles, area is the length of the base multiplied by the length of the height.

#### Suggested HOME activity:

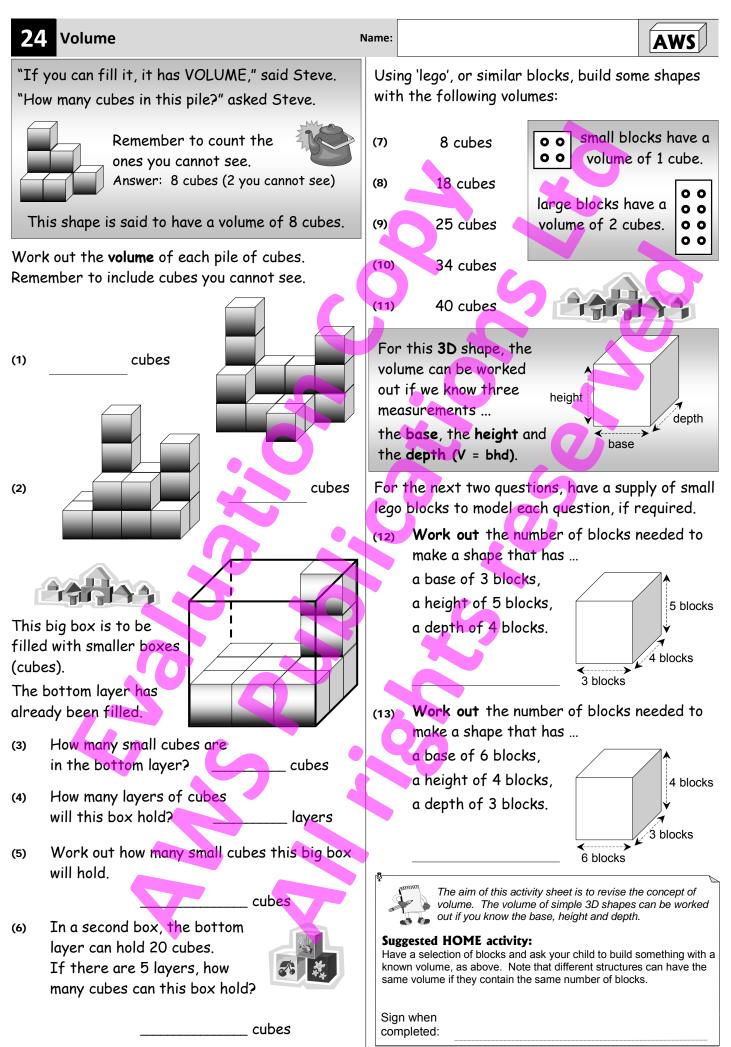
Draw shapes on maths paper and ask your child to work out each area by counting or estimating the number of squares.

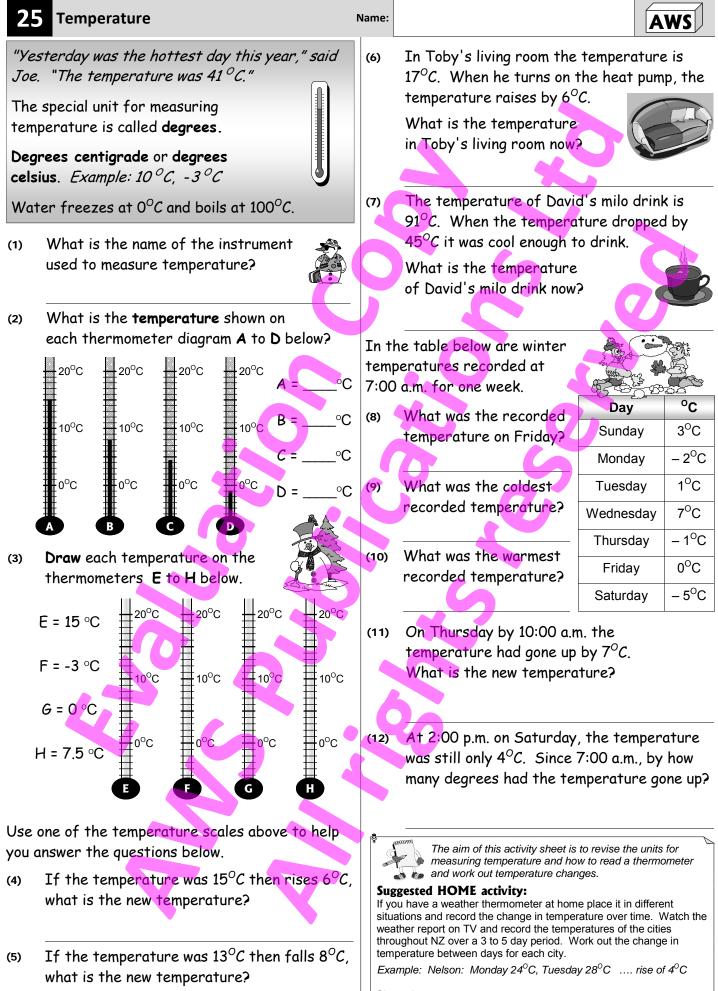
Ask your child to work out the area of a shape given how many squares in ONE row and how many rows. Such a shape is called a rectangle or square.

Example: If 1 row is 5 squares long, what is the area of a rectangle made up of 3 rows. 5+5+5=15 square units.

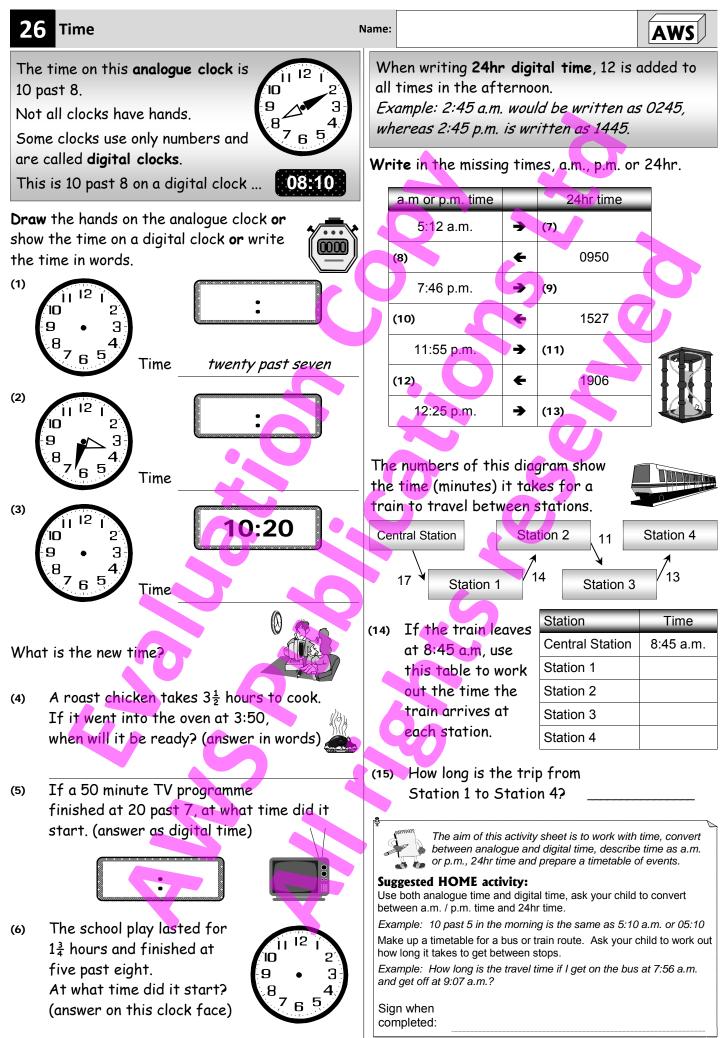
Sign when completed:

(4)





Sign when completed:



Copyright © 2007 AWS Publications Ltd

## 7 2-Dimensional shapes

 Name these 2D shapes using the words on the box below.

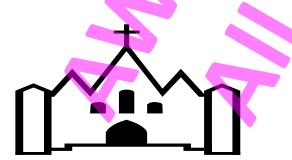
Shape	Name of shape
0	
	(
$\bigcirc$	

circle, oval, triangle, square, rectangle, diamond or rhombus, pentagon, hexagon, octagon

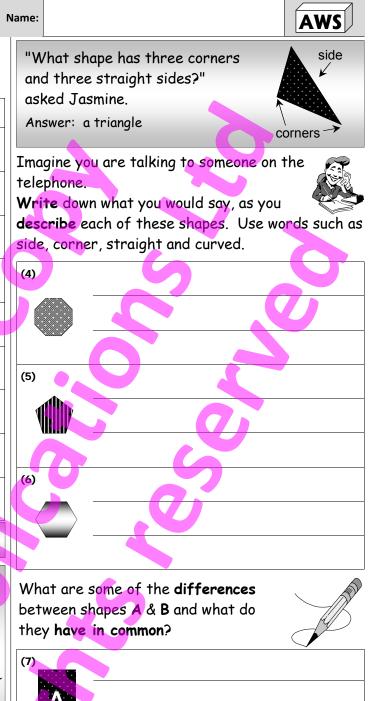
**Parallel** lines are the same distance apart. *Example:* 

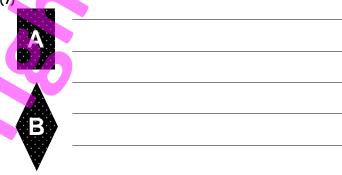
Perpendicular lines cross each other at right angles, or meet each other forming a right angle. *Example:* (A right angle is a quarter turn.)

(2) On this diagram below, draw a circle around a pair of parallel lines and label them with an A.



 On the same diagram above, draw a circle around a pair of perpendicular lines and label them with a B.





Annual Contraction

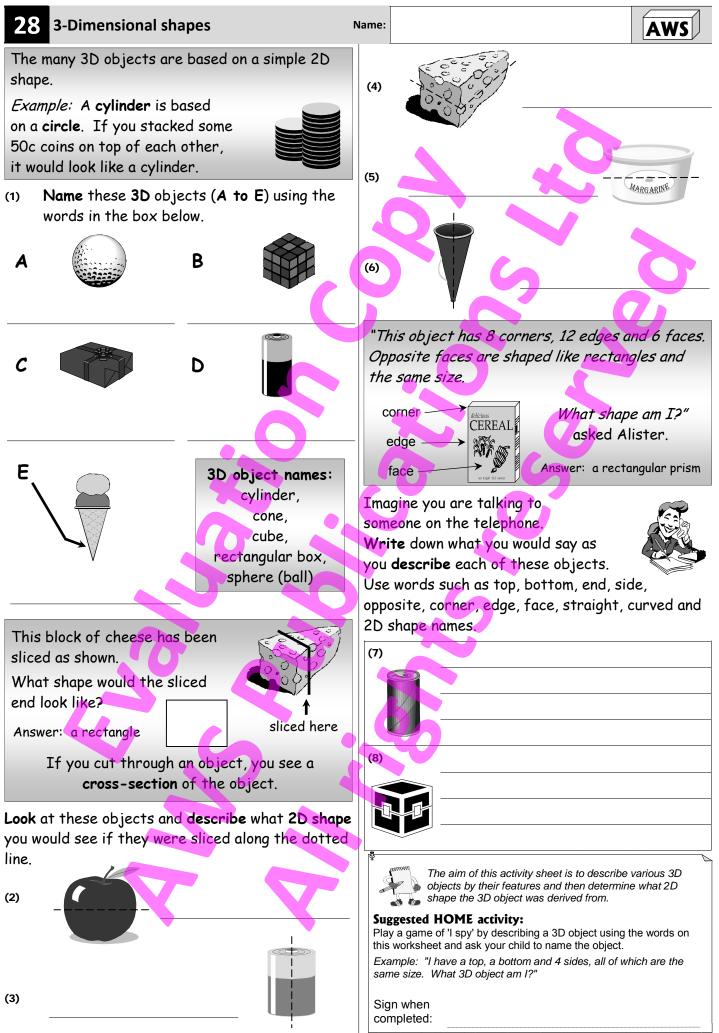
## The aim of this activity sheet is to be able to recognise, name, draw and describe various 2D shapes.

#### Suggested HOME activity:

Select one of the 2D shapes on this activity sheet. Describe the shape by it's features and ask your child to draw and name the shape.

Example: I have four corners, all my four sides are the same length. (Answer: It could be a square or a rhombus)

Sign when completed:



Copyright © 2007 AWS Publications Ltd



Name:



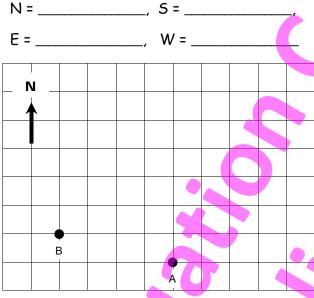
If you are map reading, knowing the compass directions will be helpful.

What compass point is opposite west? What compass point is opposite south?



Answers: east and north.

(1) What do the letters on the compass stand for?

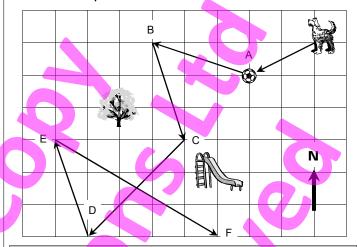


(2) Starting at point A, describe how to get to point B and draw a line from A to B.

On the grid above, follow each instruction below and **draw** the position of each **dot**, B to F and a line to join each pair of dots as you go.

- (3) Starting at point B, go 3 squares north.Draw a dot and mark with a letter C.
- (4) Starting at point C, go 2 squares north, then 4 squares east. Draw in dot D.
- (5) Starting at point D, go 2 squares south, then 4 squares east. Draw in dot E.
- (6) Starting at point E, go 3 squares south and draw in dot F.
- (7) **Join** dot F to dot A and describe how you get from dot F to dot A.
- (8) Name the shape you have drawn.

Below is a map of a playground. The path drawn on the map is that of Tom's dog Bella chasing a ball. Each square is **1 metre\_across**.



Bella ran to the ball. To do this, she ran 2 metres west / 1 metre south.

(9) Describe the distance in metres and the direction using the words north, east, south and west to describe how Bella chased the ball around the playground ... A to B

... C to D ...

... D to E ...

... E to F ...

 (10) If Bella finally chased the ball 4 metres north / 3 metres east, draw the final resting place of the ball and mark it with the letter G. Join point F and G with a line.



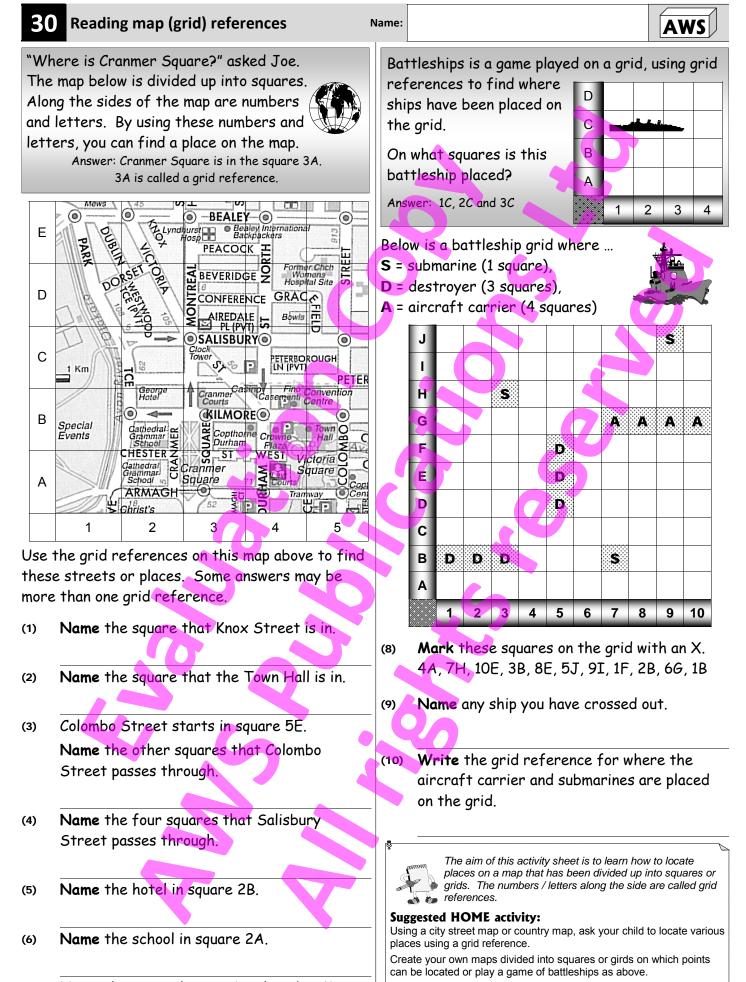
The aim of this activity sheet is to follow directional instructions to find or create pathways and understand the four points of the compass.

## Suggested HOME activity:

Draw a maze or a map of your home, inside or outside. Create a series of instructions that create pathways that can be drawn on your maze or map or create instructions that your child can physically follow as they walk around your home. Use compass directions as well.

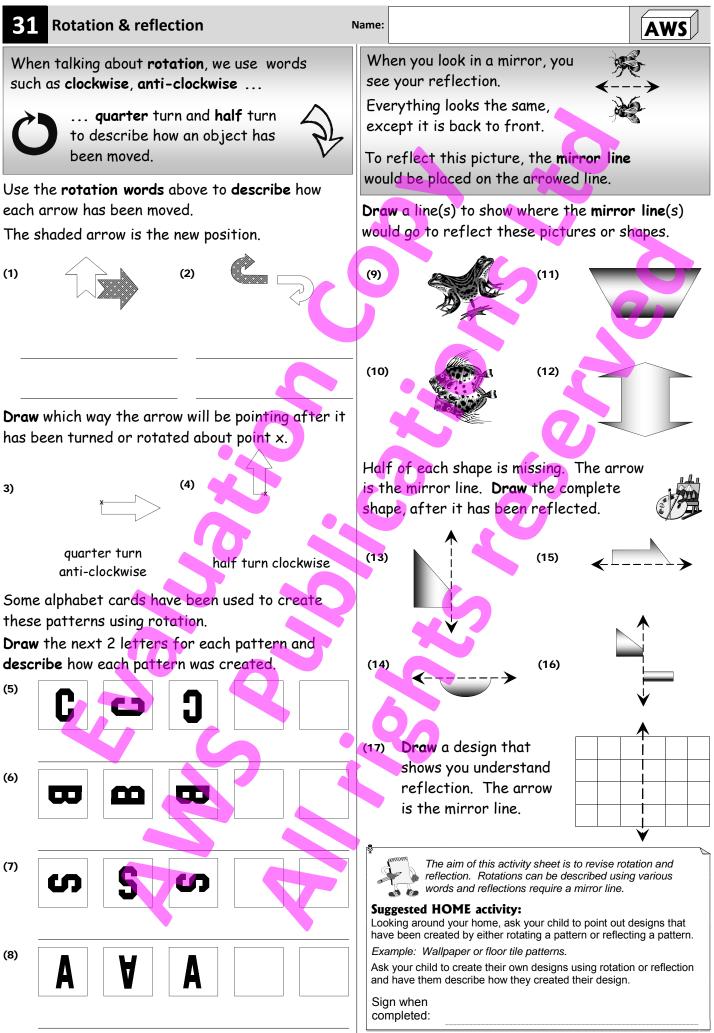
Example: Starting at this tree facing north, take 4 steps towards the shed, turn anti-clockwise west, then take 6 more steps ... etc.

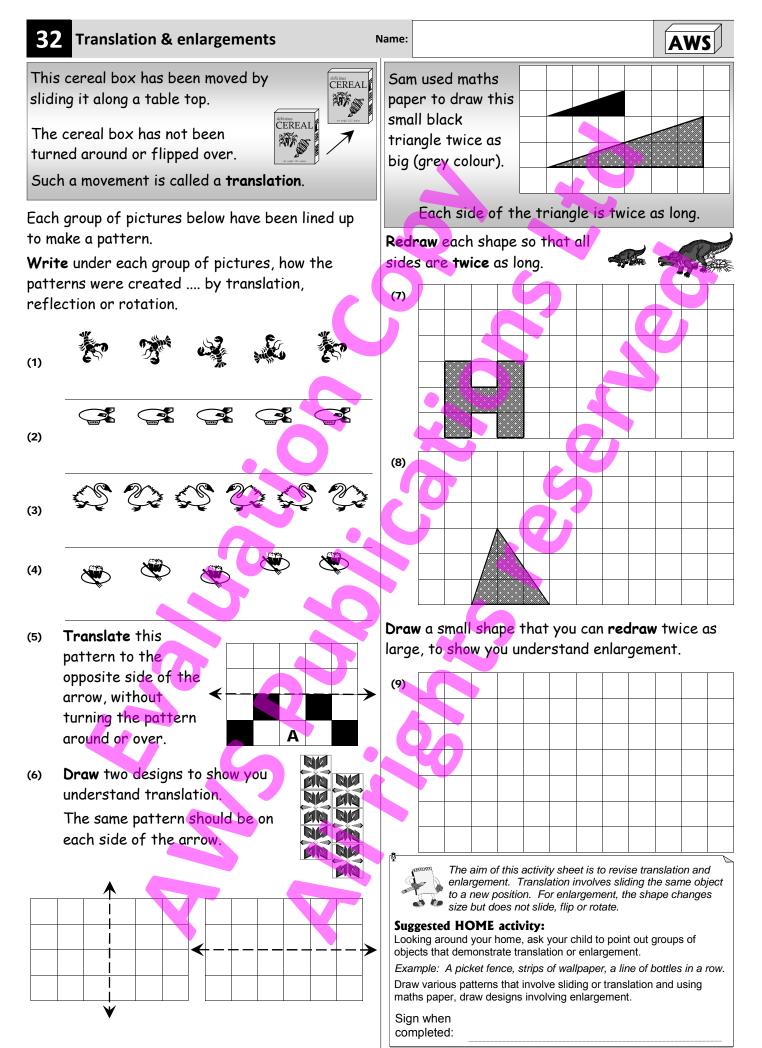
Sign when completed:



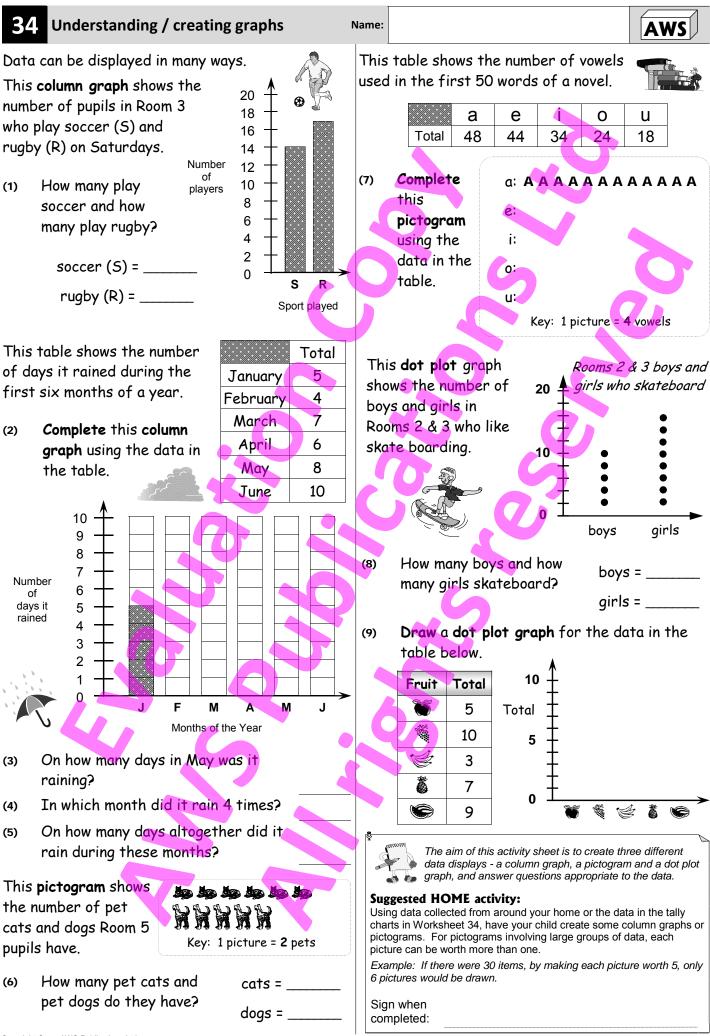
(7) Name the sport that can be played in 4D.

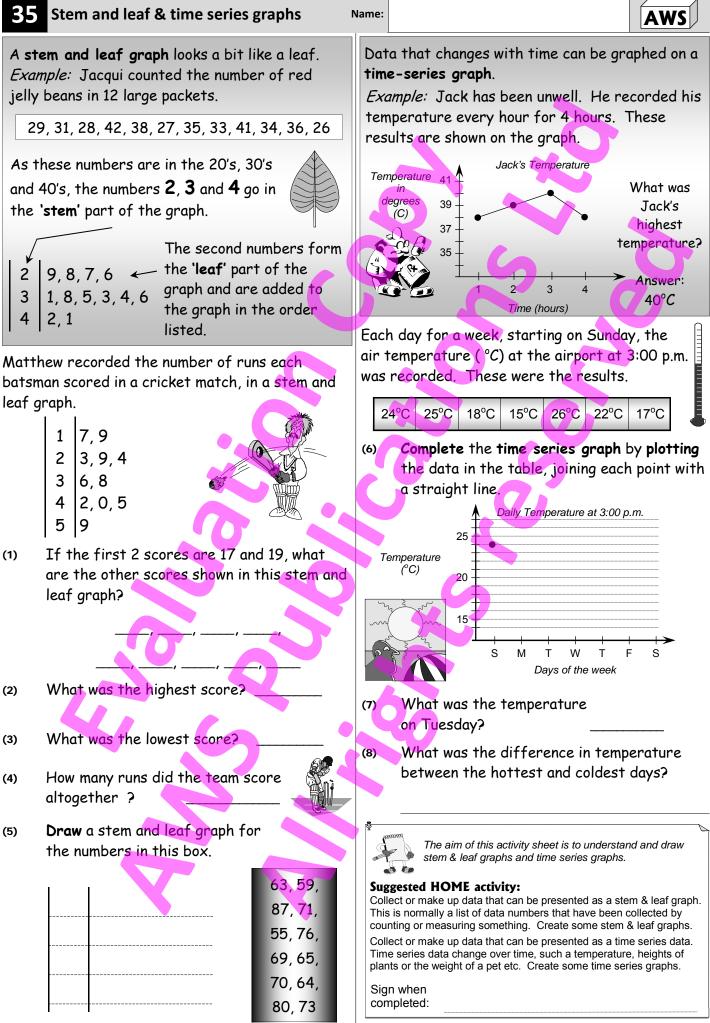
Sign when completed:



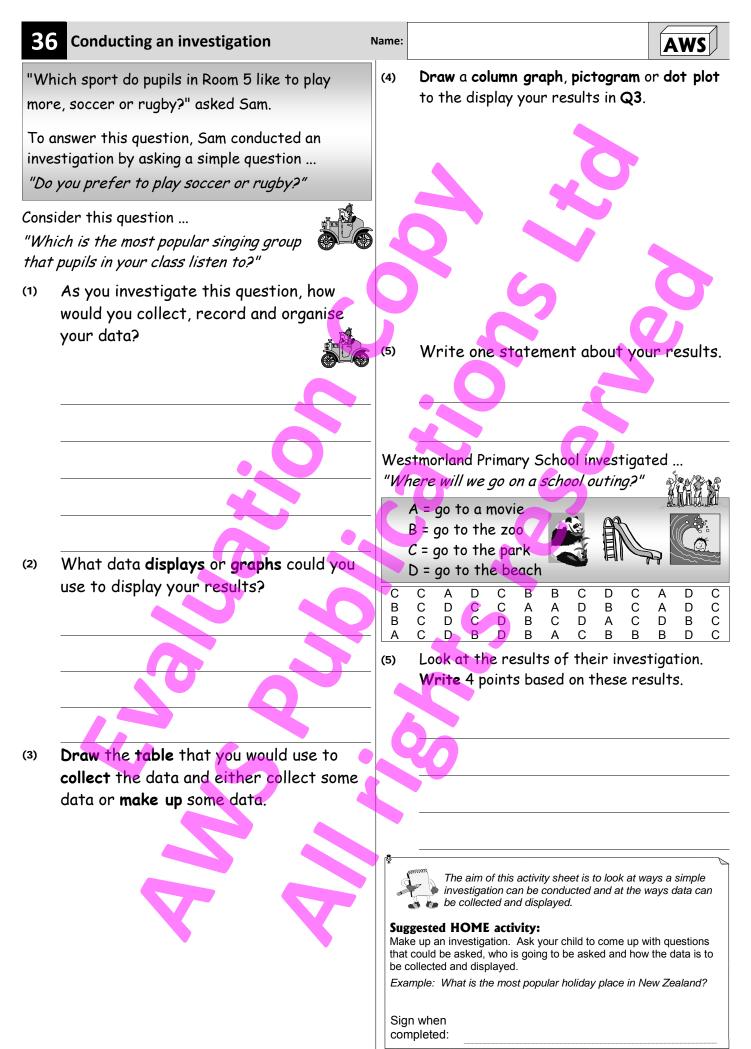


<b>33</b> Sorting data using tally charts	Name:	AWS
This tally chart shows the number of cats and dogs Room 5 pupils have as pets. How many pet cats and dogs do they have? Answers: 12 cats & 8 dogs (Remember $\cancel{H}$ = 5) Sam conducted a survey. He asked pupils in Rooms 4 and 5 "How many pets do you have at home?"	?         These were his results.           ?         Number of           5, 6, 9, 5, 7, 8, 6,         6, 7, 8, 7, 9, 6, 7,           8, 7, 8, 9, 10, 5, 6	number of
<ul> <li>Use the tally chart below to organise the data he</li> <li>Number of pets</li> <li>Number of</li></ul>	, 4, 2, this data.	chart below to organise
collected. 3, 2, 5, 0, 2, 3, 5, 2, 5 Make a mark in the <b>tally column</b> next to ea number as you go through the list above.	, 4, 0	
Number of pets Tally	Total	
0		
1		
2		
3	T. T.	PDDeff' )
4		
5	(9) What was the most	
6	of caterpillars on a	<b></b>
	of caterpillars on a	
(2) How many pupils had 2 pets?	(11) How many cabbage. McGregor have alt	
(3) How many pupils had 5 pets?		
(4) What was the most common number of pets pupils had?		sheet is to organise and sort data answer questions appropriate to
(5) What was the least common number of pets pupils had?	Collect information that can be pre you to ask extended family or frier	esented in a table. This may require ds to answer some questions to ild questions that relate to the data.
(6) How many pupils had 7 pets?	Example: A table showing favour	
(7) How many pupils did Sam survey?	Sign when completed:	
Copyright © 2007 AWS Publications Ltd		





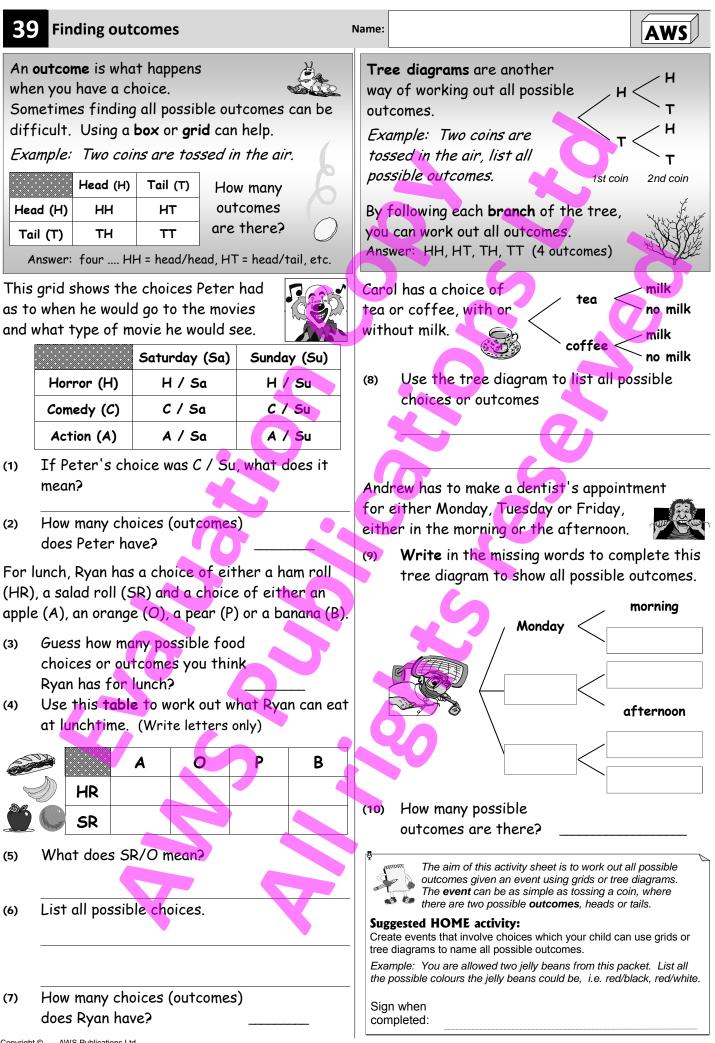
Copyright © 2007 AWS Publications Ltd



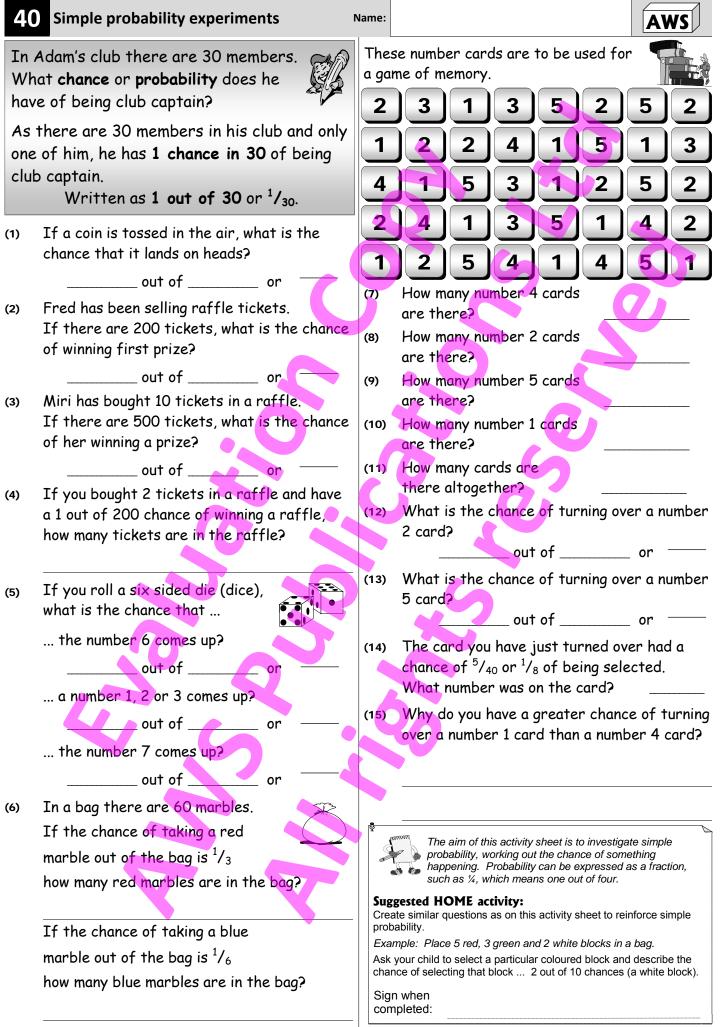
<b>37</b> Mean (average) and range	Name: AWS
<ul> <li>Here are three piles of blocks.</li> <li>If all piles had the same number of blocks, how many blocks would there be in each pile?</li> <li>Add the number of blocks in all piles (3 + 2 + 4 = 9), then divide your answer by the number of piles (9 ÷ 3 = 3). Answer: 3 blocks in each pile.</li> <li>By doing this, you are finding out the 'mean' or average number of blocks in each pile.</li> </ul>	In a running race, the fastest time was 29 minutes and the slowest time was 42 minutes. The difference between the fastest and slowest time is called the range. <i>Example: 42 - 29 = 13 minutes.</i> In this running race, the range of the times was 13 minutes. (Range = largest number - smallest number)
Work out the mean or average of each group of numbers. Question 1 has been done for you. Add up all 4 numbers, then divide your answer by 4.	Work out the range of each group of numbers.           Question 1 has been done for you. 9 - 1 = 8           (15) 8, 4, 5, 7, 9, 5, 6, 3, 1
(1) 8, 4, 5, 7 $8 + 4 + 5 + 7 = 24, 24 \div 4 = 6$ (2) 7, 9, 5	(16)       9, 14, 18, 3, 7, 9, 5, 6, 9         (17)       23, 65, 82, 14, 67, 10, 54
(3) 4, 8, 9, 7 (4) 2, 9, 5, 6, 8	(18)       96, 14, 53, 12, 84, 63, 76         (19)       64, 18, 120, 53, 42, 37
(5) 11, 3, 8, 10, 3	(20) 84, 27, 19, 34, 61, 85, 29
(6) 13, 9, 11, 7 (7) 23, 19, 21	had their heights measured in centimetres, as shown below.
(8) 103, 97 (9) 11, 13, 8, 2, 11	152, 148, 160, 138, 143, 135, 139, 132, 145 (21) Work out the range of height for these pupils.
<ul> <li>(10) 43, 61, 16</li> <li>Joe likes to play soccer after school everyday. Last week he played for 2, 3, 1, 2 and 2 hours.</li> </ul>	The highest daily temperature for a week is shown in the table below. 25°C, 23°C, 19°C, 27°C, 34°C, 26°C, 31°C
<ul> <li>(11) How many days in a row did Joe play soccer?</li> <li>(12) How many hours in total did Joe</li> </ul>	<ul> <li>(22) Work out the range of these temperatures.</li> </ul>
<ul> <li>play soccer last week?</li> <li>(13) What is the mean number of hours per day Joe played soccer?</li> </ul>	The aim of this activity sheet is to work out the mean or average for a list of numbers or scores and work out how spread out the scores are, called the range. Suggested HOME activity:
In one week the pupils in Room 3 each read some books, as shown below. 3, 1, 2, 4, 1, 3, 2, 1, 2, 1, 3, 1	Collect or create a list of scores (numbers) and using these scores, work out the mean (average) and range of the scores. <i>Example: The hours spent playing computer games etc.</i> We sometimes call the <b>mean</b> the 'average', but there are two more types of 'averages' called the <b>medium</b> and the <b>mode</b> , that you will learn about on the next worksheet.
(14) Work out the mean number of books read by these pupils.	Sign when completed:

<b>38</b> Median and mode	Name: AWS
Another type of 'average' is called the <b>median</b> . The <b>median</b> is the middle score, once the scores have been placed in <b>order</b> from smallest to largest. Example: 2, 3, 5, 6, 7, 8, 12, 20, 30 As these scores are in order, start counting one score off each end until you reach the middle. The <b>median</b> (middle) score for this list is 7. <b>Work out</b> the <b>median</b> for each list of scores. Remember the score MUST be in order from smallest to largest.	Another type of 'average' is called the mode. The mode is the most common score. Example: This list shows the shoe size of shoes sold this week. 7, 9, 8, 9, 6, 10, 9, 8, 9, 10, 9, 7, 9 What is the most common size sold? The most common size was 9, therefore the mode for these scores is 9. There can be more than one mode for a list. Work out the mode for each list of scores. There may be more than one answer.
(1) 1, 3, 6, 9, 11	(12) 2, 2, 3, 3, 3, 4, 4, 6, 7, 7, 8
(2) 6, 8, 9, 15, 19, 21, 23	(13) 9, 9, 8, 7, 3, 8, 9, 6, 8
(3) 21, 29, 35, 37, 48, 53, 67	(14) 12, 6, 8, 9, 6, 7, 6, 9, 12, 9, 6
(4) 1, 4, 6, 9, 10, 11, 16, 18, 20	(15) 3, 4, 6, 8, 3, 5, 3, 7, 5, 3, 5, 3
(5) 3, 3, 3, 4, 4, 4, 5, 5, 5, 6, 8	(16) 10, 7, 9, 8, 7, 6, 7, 5, 7, 2, 10, 5
If there is an even number of scores, there will be two scores left in the middle. The <b>median</b> is half way between these scores. Example: 3, 6, 8, 12 median = 7 (6 & 8 are in the middle, halfway is 7) Work out the <b>median</b> for each list of scores	Every time a T-shirt is sold, its size is noted. Below is a list of the sizes sold. 8, 10, 10, 8, 12, 8, 12, 10, 8, 8, 12, 8 (17) Work out the mode size for the T-shirt sales.
(6) 9, 10, 14, 21	(18) Why would it be helpful for a shop keeper to collect this data?
(7) 6, 9, 15, 17, 21, 27	
(8) 21, 24, 26, 30, 38, 45, 53, 65	
(9) 8, 15, 42, 68, 72, 91	(19) Work out the <b>median</b> T-shirt size?
(10) 8, 9, 14, 15, 16, 18, 21, 28	
In one week the pupils in Room 7 each read some books, as shown below. 3, 1, 2, 4, 1, 3, 2, 1, 2, 1, 3, 1, 3 (11) Work out the median number of books read?	The aim of this activity sheet is to work out two different types of 'averages' - median and the mode. The median is the middle score, given the scores are in order. The mode is the most common score (there may be more than one).  Suggested HOME activity: Collect or create a list of scores (numbers) and using these scores, work out the median and mode of the scores.  Example: The height of people in your family or their shoe sizes. Depending on what you are dealing with, one type of 'average' will be more suitable than another.  Sign when
	completed:

Copyright © 2007 AWS Publications Ltd



Copyright © 2007 AWS Publications Ltd



		_	Curric	culum	Strand	Wo	rksł	heet Answers	_	_		_	
1		2					3			4			
(1)			10000's = 1	1, 1000'	's = 3,		1)	3 1 8 • 4 6		(1)	10's = 1, 1	's = 3, 1	$1/_{10's} = 4$ ,
(-)			100's = 6, 1	10's = 2	2, 1's = 4		-,	•			$^{1}/_{100's} = 8,$	<sup>1</sup> / <sub>1000's</sub> =	4
	1 4 7 5 6 0 2		Number = 10000's = 8					5 9 • 2 4 6 6		(2)	Number = 10's = 2, 1		
	6 9 0 4	(-)	100's = 4, 1	10's = 3	, 1's = 6			7 • 4 1	_	(2)	$^{1}/_{100's} = 3,$	<sup>1</sup> / <sub>1000's</sub> =	8
	9 2 5 7 0 8 6 1 3		Number = $\begin{cases} \\ 10000's = 4 \end{cases}$					1 1 0 8 • 4 8 8 • •	-	(2)	Number = 10's = 3, 1		
	7 3 5 2 0	(-)	100's = 4, 1	10's = 9	, 1's = 4			6 • 3 2 4 7		(3)	$^{1}/_{100's} = 2,$	<sup>1</sup> / <sub>1000's</sub> =	4
	5		Number = 4	40494				7 1 5 • 6	9		Number =	30.02	4
	8     3     4     8       9     2     1     9     1	(4)		10000	0000			<b>3 4 9 • 3 7 2</b>		(4)			
	0 6 5 9 3 6			Ī	Ē			1 0 7 •					
	1 5 4 9 6 3		10000's 1000's	100's 10's	1's			5 • 4 0 9 6			10's 1's	• '/10'\$ '/100'	s <sup>1/1000</sup> 'S
	6 9 2 1 4 0 8	(5)	10's		30			3     •     3       6     1     7     •     2     0     5     4		(5)	<sup>1</sup> / <sub>100</sub> 's		0.03
(2)	sixty-five	(6)	1000's		7000			8 7		(6)	10's		70
(3)	eighty-three	(7)	1's		3	(	2)	six point four		(7)	<sup>1</sup> / <sub>1000</sub> 's		0.003
(4)	three hundred and	(8)	100's		500	0	3)	five point zero two		(8)	<sup>1</sup> / <sub>10</sub> 's		0.5
	sixteen	(9)	1000's		1000		4)	eighty-nine point si		(9)	1's		2
(5)	one thousand and	(10)	10000's		60000					(10)			40
	ninety-seven	(11)	10's		80	(	5)	forty-three point eig	nt	(11)			0.08
(6)	eight thousand, three	(12)	1000's		9000	6	6)	seven three hundred and fi	ftv	(12)			0.009
	hundred and two	(13)	100's		600			point one three		(13)			0.06
(7)	fifteen thousand, three	(14)	1000's		8000	(	7) (	eighteen point zero o	one	(14)			0.8
	hundred and sixty	(15)	100's		300			nine		(15)			0.003
(8)	seventy-six thousand	(16)		9)5 0 4		(	8)	fifty-eight point five c	ne	(16)		9). 7 5	
	and two	(17)		387				three		(17)		4 . 1(4	-
		(18)		0 4(8	-		Ţ			(18)		87.6	
		(19)		931						(19)		. 8 2@	-
		(20)	90	8)13!	5					(20)	12	3 . 8(	5)6
5		6							5	8		1	
5 (1)	100 + 11 = 111	6 (1)	60	- 5 = 5	55		7 1)	0.95, 1.56, 3.45,		(1)	\$60	(6)	\$640 \$700
	100 + 11 = 111 100 + 40 = 140	6 (1) (2)	· · · · ·	- 5 = 5 - 1 = 1			7	8.04, 12.6, 18.3		(1) (2)	\$80	(7)	\$790
(1)			190 -		189		7 1) 2)	8.04, 12.6, 18.3 23.71m		(1)			
(1) (2)	100 + 40 = 140	(2)	190 - 470 -	- 1 = 1	189 164	C		8.04, 12.6, 18.3 23.71m 23.37m		(1) (2) (3)	\$80 \$100	(7) (8)	\$790 \$270
(1) (2) (3)	100 + 40 = 140 1000 + 49 = 1 <mark>04</mark> 9	(2) (3)	190 - 470 - 260 -	- 1 = 1 - 6 = 4	189 464 258	() () ()	2) 3) 4)	8.04, 12.6, 18.3 23.71m 23.37m 23.65m		(1) (2) (3) (4) (5)	\$80 \$100 \$70 \$150	(7) (8) (9) (10)	\$790 \$270 \$570 \$920
<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> </ul>	100 + 40 = 140 1000 + 49 = 1049 2000+500+26 = 2526	(2) (3) (4)	190 - 470 - 260 - 26 +	- 1 = 1 - 6 = 4 - 2 = 2	189 464 258 82	() () ()	2) 3)	8.04, 12.6, 18.3 23.71m 23.37m 23.65m 23.71, 23.65, 23.5		(1) (2) (3) (4) (5) (11)	\$80 \$100 \$70 \$150 300	(7) (8) (9) (10) (16)	\$790 \$270 \$570 \$920 700
<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> </ul>	100 + 40 = 140 1000 + 49 = 1049 2000+500+26 = 2526 60 + 60 + 5 = 125	(2) (3) (4) (5)	190 - 470 - 260 - 26 + 49 +	- 1 = 1 - 6 = 4 - 2 = 2 - 56 =	189 464 258 82 93	() () ()	2) 3) 4)	8.04, 12.6, 18.3 23.71m 23.37m 23.65m		(1) (2) (3) (4) (5) (11) (12)	\$80 \$100 \$70 \$150 300 800	(7) (8) (9) (10) (16) (17)	\$790 \$270 \$570 \$920 700 800
<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> </ul>	100 + 40 = 140 1000 + 49 = 1049 2000+500+26 = 2526 60 + 60 + 5 = 125 70 + 70 + 5 = 145	(2) (3) (4) (5) (6)	190 - 470 - 260 - 26 + 49 +	- 1 = 1 - 6 = 4 - 2 = 2 - 56 = - 44 = - 56 = -	189 464 258 82 93 114		2) 3) 4) 5) 6)	8.04, 12.6, 18.3 23.71m 23.37m 23.65m 23.71, 23.65, 23.5 23.48, 23.37 6		(1) (2) (3) (4) (5) (11) (12) (13)	\$80 \$100 \$70 \$150 300 800 200	<ul> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> </ul>	\$790 \$270 \$570 \$920 700 800 500
<ol> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> </ol>	100 + 40 = 140 1000 + 49 = 1049 2000+500+26 = 2526 60 + 60 + 5 = 125 70 + 70 + 5 = 145 100 + 100 + 9 = 209	<ul> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> </ul>	190 - 470 - 260 - 26 + 49 + 58 +	- 1 = 1 - 6 = 2 - 2 = 2 - 56 = - 44 = 56 = 178 =	189 464 258 82 93 114 245		2) 3) 4) 5) 6) 7)	8.04, 12.6, 18.3 23.71m 23.37m 23.65m 23.71, 23.65, 23.5 23.48, 23.37 6 3		<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> </ul>	\$80 \$100 \$70 \$150 300 800 200 400	<ul> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> </ul>	\$790 \$270 \$570 \$920 700 800 500 300
<ol> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> </ol>	100 + 40 = 140 $1000 + 49 = 1049$ $2000+500+26 = 2526$ $60 + 60 + 5 = 125$ $70 + 70 + 5 = 145$ $100 + 100 + 9 = 209$ $200 + 200 + 43 = 243$	<ul> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> </ul>	190 470 260 26 + 49 + 58 + 67 + 118 +	- 1 = 1 - 6 = 2 - 2 = 2 - 56 = - 44 = 56 = 178 =	189 464 258 82 93 114 245 : 341		2) 3) 4) 5) 6) 7) 8)	8.04, 12.6, 18.3 23.71m 23.37m 23.65m 23.71, 23.65, 23.5 23.48, 23.37 6 3 30.1, 31.9, 32.9	2,	(1) (2) (3) (4) (5) (11) (12) (13)	\$80 \$100 \$70 \$150 300 800 200 400	<ul> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> </ul>	\$790 \$270 \$570 \$920 700 800 500
<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> </ul>	100 + 40 = 140 $1000 + 49 = 1049$ $2000+500+26 = 2526$ $60 + 60 + 5 = 125$ $70 + 70 + 5 = 145$ $100 + 100 + 9 = 209$ $200 + 200 + 43 = 243$ $80 + 23 = 103$ $30 + 155 = 185$	<ul> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> </ul>	190 470 260 26 + 49 + 58 + 67 + 118 +	- 1 = 1 - 6 = 4 - 2 = 2 - 56 = - 44 = 56 = 178 = 223 =	189 464 258 82 93 114 245 : 341 35		2) 3) 4) 5) 6) 7) 8)	8.04, 12.6, 18.3 23.71m 23.37m 23.65m 23.71, 23.65, 23.5 23.48, 23.37 6 30.1, 31.9, 32.9 30.1, 31.9, 32.9, 33	2,	<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> </ul>	\$80 \$100 \$70 \$150 300 800 200 400 200	<ul> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> </ul>	\$790 \$270 \$570 \$920 700 800 500 300
<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> </ul>	100 + 40 = 140 1000 + 49 = 1049 2000+500+26 = 2526 60 + 60 + 5 = 125 70 + 70 + 5 = 145 100 + 100 + 9 = 209 200 + 200 + 43 = 243 80 + 23 = 103 30 + 155 = 185 240 + 33 = 273	<ul> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> </ul>	190 470 260 26 + 49 + 58 + 67 + 118 + 65 - 187 -	- 1 = 1 - 6 = 2 - 2 = 2 - 56 = - 44 = 56 = - 178 = - 223 = - 30 =	189 464 258 82 93 114 245 : 341 35 117		2) 3) 4) 5) 6) 7) 8)	8.04, 12.6, 18.3 23.71m 23.37m 23.65m 23.71, 23.65, 23.5 23.48, 23.37 6 3 30.1, 31.9, 32.9	2,	<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> </ul>	\$80 \$100 \$70 \$150 300 800 200 400 200 3.5	<ul> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(20)</li> </ul>	\$790 \$270 \$570 \$920 700 800 500 300 800
<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> </ul>	100 + 40 = 140 1000 + 49 = 1049 2000+500+26 = 2526 60 + 60 + 5 = 125 70 + 70 + 5 = 145 100 + 100 + 9 = 209 200 + 200 + 43 = 243 80 + 23 = 103 30 + 155 = 185 240 + 33 = 273	<ul> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> </ul>	190 470 260 26 + 49 + 58 + 67 + 118 + 65 - 187 -	-1 = 1 -6 = 2 -2 = 2 -56 = -10 -178 = -10 -223 = -10 -203 = -10	189 464 258 82 93 114 245 : 341 35 117 239		2) 3) 4) 5) 6) 7) 8)	8.04, 12.6, 18.3 23.71m 23.37m 23.65m 23.71, 23.65, 23.5 23.48, 23.37 6 30.1, 31.9, 32.9 30.1, 31.9, 32.9, 33	2,	<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(21)</li> </ul>	\$80 \$100 \$70 \$150 300 800 200 400 200 3.5 7.6	<ul> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(20)</li> <li>(26)</li> </ul>	\$790 \$270 \$570 \$920 700 800 500 300 800 17.3
<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> </ul>	100 + 40 = 140 $1000 + 49 = 1049$ $2000+500+26 = 2526$ $60 + 60 + 5 = 125$ $70 + 70 + 5 = 145$ $100 + 100 + 9 = 209$ $200 + 200 + 43 = 243$ $80 + 23 = 103$ $30 + 155 = 185$ $240 + 33 = 273$ $50 + 526 = 576$	<ul> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> </ul>	190 - 470 - 260 - 26 + 49 + 58 + 67 + 118 + 65 - 187 - 279 - 358 -	-1 = 1 -6 = 4 -2 = 2 -56 = -10 -178 = -10 -223 = -10 -203 = -10	189 464 258 82 93 114 245 : 341 35 117 239 258		2) 3) 4) 5) 6) 7) 8) 9)	8.04, 12.6, 18.3 23.71m 23.37m 23.65m 23.71, 23.65, 23.5 23.48, 23.37 6 30.1, 31.9, 32.9 30.1, 31.9, 32.9, 33 34.4, 35.8, 36.3, 37	2,	<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(21)</li> <li>(22)</li> </ul>	\$80 \$100 \$70 \$150 300 800 200 400 200 3.5 7.6 1.9 3.8	<ul> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(20)</li> <li>(26)</li> <li>(27)</li> </ul>	\$790 \$270 \$570 \$920 700 800 500 300 800 17.3 28.8 124.8 133.7
<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> </ul>	100 + 40 = 140 $1000 + 49 = 1049$ $2000+500+26 = 2526$ $60 + 60 + 5 = 125$ $70 + 70 + 5 = 145$ $100 + 100 + 9 = 209$ $200 + 200 + 43 = 243$ $80 + 23 = 103$ $30 + 155 = 185$ $240 + 33 = 273$ $50 + 526 = 576$ $300+100+60+30+2+7 = 499$	<ul> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> </ul>	190 - 470 - 260 - 26 + 49 + 58 + 67 + 118 + 65 - 187 - 279 - 358 -	-1 = 1 -6 = 2 -2 = 2 -56 = -178 = -178 = -1233 = -1	189 464 258 82 93 114 245 : 341 35 117 239 258		2) 3) 4) 5) 6) 7) 8) 9)	8.04, 12.6, 18.3 23.71m 23.37m 23.65m 23.71, 23.65, 23.5 23.48, 23.37 6 30.1, 31.9, 32.9 30.1, 31.9, 32.9, 33 34.4, 35.8, 36.3, 37 0.987kg	2,	<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(21)</li> <li>(22)</li> <li>(23)</li> </ul>	\$80 \$100 \$70 \$150 300 800 200 400 200 3.5 7.6 1.9 3.8	<ul> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(20)</li> <li>(26)</li> <li>(27)</li> <li>(28)</li> </ul>	\$790 \$270 \$570 \$920 700 800 500 300 800 17.3 28.8 124.8
<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> </ul>	100 + 40 = 140 $1000 + 49 = 1049$ $2000+500+26 = 2526$ $60 + 60 + 5 = 125$ $70 + 70 + 5 = 145$ $100 + 100 + 9 = 209$ $200 + 200 + 43 = 243$ $80 + 23 = 103$ $30 + 155 = 185$ $240 + 33 = 273$ $50 + 526 = 576$ $300+100+60+30+2+7 = 499$ $100+500+40+20+5+4 = 669$	<ul> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> </ul>	190 - 470 - 260 - 26 + 49 + 58 + 67 + 118 + 65 - 187 - 279 - 358 -	-1 = 1 -6 = 2 -2 = 2 -2 = 2 -2 = 2 -44 = 1 -76 = 1 -70	189 464 258 82 93 114 245 : 341 35 117 239 258		2) 3) 4) 5) 6) 7) 8) 9) (0) 1) 2) 3)	8.04, 12.6, 18.3 23.71m 23.37m 23.65m 23.71, 23.65, 23.5 23.48, 23.37 6 30.1, 31.9, 32.9 30.1, 31.9, 32.9, 33 34.4, 35.8, 36.3, 37 0.987kg 1.036kg 1.012kg 1kg	2,	<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(21)</li> <li>(22)</li> <li>(23)</li> <li>(24)</li> <li>(25)</li> </ul>	\$80 \$100 \$70 \$150 300 800 200 400 200 3.5 7.6 1.9 3.8 1.6	<ul> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(20)</li> <li>(26)</li> <li>(27)</li> <li>(28)</li> <li>(29)</li> <li>(30)</li> </ul>	\$790 \$270 \$570 \$920 700 800 500 300 800 17.3 28.8 124.8 133.7 813.2
<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> </ul>	100 + 40 = 140 $1000 + 49 = 1049$ $2000+500+26 = 2526$ $60 + 60 + 5 = 125$ $70 + 70 + 5 = 145$ $100 + 100 + 9 = 209$ $200 + 200 + 43 = 243$ $80 + 23 = 103$ $30 + 155 = 185$ $240 + 33 = 273$ $50 + 526 = 576$ $300+100+60+30+2+7 = 499$ $100+500+40+20+5+4 = 669$ $200-100+60-20+7-4 = 143$ $500-200+30-10+9-6 = 323$	<ul> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> </ul>	190 - 470 - 260 - 26 + 49 + 58 + 67 + 118 + 65 - 187 - 279 - 358 -	-1 = 1 -6 = 2 -2 = 2 -56 = -178 = -178 = -1233 = -1	189 464 258 82 93 114 245 : 341 35 117 239 258		2) 3) 4) 5) 6) 7) 8) 9) (0) (1) (2)	8.04, 12.6, 18.3 23.71m 23.37m 23.65m 23.71, 23.65, 23.5 23.48, 23.37 6 30.1, 31.9, 32.9 30.1, 31.9, 32.9, 33 34.4, 35.8, 36.3, 37 0.987kg 1.036kg 1.012kg 1kg 0.987, 0.996, 1.01	2,	<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(21)</li> <li>(22)</li> <li>(23)</li> <li>(24)</li> </ul>	\$80 \$100 \$70 \$150 300 800 200 400 200 3.5 7.6 1.9 3.8 1.6 \$80 +	(7) (8) (9) (10) (16) (17) (18) (19) (20) (26) (27) (28) (29) (30) \$80 =	\$790 \$270 \$570 \$920 700 800 500 300 800 17.3 28.8 124.8 133.7 813.2 \$160
<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(16)</li> </ul>	100 + 40 = 140 $1000 + 49 = 1049$ $2000+500+26 = 2526$ $60 + 60 + 5 = 125$ $70 + 70 + 5 = 145$ $100 + 100 + 9 = 209$ $200 + 200 + 43 = 243$ $80 + 23 = 103$ $30 + 155 = 185$ $240 + 33 = 273$ $50 + 526 = 576$ $300+100+60+30+2+7 = 499$ $100+500+40+20+5+4 = 669$ $200-100+60-20+7-4 = 143$ $500-200+30-10+9-6 = 323$ $170 - 6 + 5 = 169$	<ul> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(16)</li> </ul>	190 - 470 - 260 - 26 + 49 + 58 + 67 + 118 + 65 - 187 - 279 - 358 -	-1 = 1 -6 = 2 -2 =	189 464 258 82 93 114 245 : 341 35 117 239 258		2) 3) 4) 5) 6) 7) 8) 9) 1) 2) 3)	8.04, 12.6, 18.3 23.71m 23.37m 23.65m 23.71, 23.65, 23.5 23.48, 23.37 6 30.1, 31.9, 32.9 30.1, 31.9, 32.9, 33 34.4, 35.8, 36.3, 37 0.987kg 1.036kg 1.012kg 1kg	2,	<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(21)</li> <li>(22)</li> <li>(23)</li> <li>(24)</li> <li>(25)</li> <li>(31)</li> </ul>	\$80 \$100 \$70 \$150 300 800 200 400 200 3.5 7.6 1.9 3.8 1.6 \$80 + \$160 + \$100	<ul> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(20)</li> <li>(26)</li> <li>(27)</li> <li>(28)</li> <li>(29)</li> <li>(30)</li> <li>\$80 =</li> <li>\$50 =</li> <li>\$60</li> </ul>	\$790 \$270 \$570 \$920 700 800 500 300 800 17.3 28.8 124.8 133.7 813.2 \$160 = \$210 = \$40
<ol> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(16)</li> <li>(17)</li> </ol>	100 + 40 = 140 $1000 + 49 = 1049$ $2000+500+26 = 2526$ $60 + 60 + 5 = 125$ $70 + 70 + 5 = 145$ $100 + 100 + 9 = 209$ $200 + 200 + 43 = 243$ $80 + 23 = 103$ $30 + 155 = 185$ $240 + 33 = 273$ $50 + 526 = 576$ $300+100+60+30+2+7 = 499$ $100+500+40+20+5+4 = 669$ $200-100+60-20+7-4 = 143$ $500-200+30-10+9-6 = 323$ $170 - 6 + 5 = 169$ $320 - 9 + 6 = 317$	<ul> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(16)</li> <li>(17)</li> </ul>	190 - 470 - 260 - 26 + 49 + 58 + 67 + 118 + 65 - 187 - 279 - 358 -	-1 = 1 $-6 = 4$ $-2 = 2$ $-56 = -44 = -56 = -56$ $178 = -223 = -56$ $30 = -70 = -56$ $40 = -70 = -56$ $100 = -79$ $34$ $61$	189 464 258 82 93 114 245 : 341 35 117 239 258		2) 3) 4) 5) 6) 7) 8) 9) 1) 2) 3)	8.04, 12.6, 18.3 23.71m 23.37m 23.65m 23.71, 23.65, 23.5 23.48, 23.37 6 30.1, 31.9, 32.9 30.1, 31.9, 32.9, 33 34.4, 35.8, 36.3, 37 0.987kg 1.036kg 1.012kg 1kg 0.987, 0.996, 1.01	2, .4, 7.7 2,	<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(21)</li> <li>(22)</li> <li>(23)</li> <li>(24)</li> <li>(25)</li> <li>(31)</li> <li>(32)</li> <li>(33)</li> <li>(34)</li> </ul>	\$80 \$100 \$70 \$150 300 800 200 400 200 3.5 7.6 1.9 3.8 1.6 \$80 + \$160 + \$100 \$230 -	<ul> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(20)</li> <li>(26)</li> <li>(27)</li> <li>(28)</li> <li>(29)</li> <li>(30)</li> <li>\$80 =</li> <li>\$50 =</li> <li>\$60</li> <li>\$70 =</li> </ul>	\$790 \$270 \$570 \$920 700 800 500 300 800 17.3 28.8 124.8 133.7 813.2 \$160 = \$210 = \$40 = \$160
<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> </ul>	100 + 40 = 140 $1000 + 49 = 1049$ $2000+500+26 = 2526$ $60 + 60 + 5 = 125$ $70 + 70 + 5 = 145$ $100 + 100 + 9 = 209$ $200 + 200 + 43 = 243$ $80 + 23 = 103$ $30 + 155 = 185$ $240 + 33 = 273$ $50 + 526 = 576$ $300+100+60+30+2+7 = 499$ $100+500+40+20+5+4 = 669$ $200-100+60-20+7-4 = 143$ $500-200+30-10+9-6 = 323$ $170 - 6 + 5 = 169$ $320 - 9 + 6 = 317$	<ul> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> </ul>	190 - 470 - 260 - 26 + 49 + 58 + 67 + 118 + 65 - 187 - 279 - 358 -	-1 = 1 -6 = 2 -2 = 2 -56 = -178 = -178 = -1233 = -1	189 464 258 82 93 114 245 : 341 35 117 239 258		2) 3) 4) 5) 6) 7) 8) 9) 1) 2) 3) 4)	8.04, 12.6, 18.3 23.71m 23.37m 23.65m 23.71, 23.65, 23.5 23.48, 23.37 6 30.1, 31.9, 32.9 30.1, 31.9, 32.9, 33 34.4, 35.8, 36.3, 37 0.987kg 1.036kg 1.012kg 1kg 0.987, 0.996, 1.01 1.023, 1.036 14.9572, 14.9725 14.9752,	2, .4, 7.7 2,	<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(21)</li> <li>(22)</li> <li>(23)</li> <li>(24)</li> <li>(25)</li> <li>(31)</li> <li>(32)</li> <li>(33)</li> <li>(34)</li> <li>(35)</li> </ul>	\$80 \$100 \$70 \$150 300 800 200 400 200 3.5 7.6 1.9 3.8 1.6 \$80 + \$100 \$230 - \$300 + \$	(7) (8) (9) (10) (16) (17) (18) (17) (20) (26) (27) (28) (29) (28) (29) (30) \$80 = - \$50 = - \$60 \$70 = \$700 =	\$790 \$270 \$570 \$920 700 800 500 300 800 17.3 28.8 124.8 133.7 813.2 \$160 = \$210 = \$210 = \$40 = \$160 = \$1000
<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> </ul>	100 + 40 = 140 $1000 + 49 = 1049$ $2000+500+26 = 2526$ $60 + 60 + 5 = 125$ $70 + 70 + 5 = 145$ $100 + 100 + 9 = 209$ $200 + 200 + 43 = 243$ $80 + 23 = 103$ $30 + 155 = 185$ $240 + 33 = 273$ $50 + 526 = 576$ $300+100+60+30+2+7 = 499$ $100+500+40+20+5+4 = 669$ $200-100+60-20+7-4 = 143$ $500-200+30-10+9-6 = 323$ $170 - 6 + 5 = 169$ $320 - 9 + 6 = 317$ $430 - 8 + 2 = 424$ $530 - 7 + 1 = 524$	<ul> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> </ul>	190 470 260 26 + 49 + 58 + 67 + 118 + 65 - 187 - 279 - 358 - 422 -	-1 = 1 $-6 = 2$ $-2 = 2$ $-56 = -44 = -56$ $178 = -223 = -30 = -70 = -70 = -70 = -70 = -79$ $34$	189 464 258 82 93 114 245 35 117 239 258 332		2) 3) 4) 5) 6) 7) 8) 9) 1) 2) 3) 4)	8.04, 12.6, 18.3 23.71m 23.37m 23.65m 23.71, 23.65, 23.5 23.48, 23.37 6 30.1, 31.9, 32.9 30.1, 31.9, 32.9, 33 34.4, 35.8, 36.3, 37 0.987kg 1.036kg 1.012kg 1kg 0.987, 0.996, 1.01 1.023, 1.036 14.9572, 14.9725 14.9752, 15.000,	2, .4, .7 2,	<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(21)</li> <li>(22)</li> <li>(23)</li> <li>(24)</li> <li>(25)</li> <li>(31)</li> <li>(32)</li> <li>(33)</li> <li>(34)</li> <li>(35)</li> <li>(36)</li> </ul>	\$80 \$100 \$70 \$150 300 800 200 400 200 3.5 7.6 1.9 3.8 1.6 \$80 + \$160 + \$100 \$230 -	(7) (8) (9) (10) (16) (17) (18) (19) (20) (26) (27) (28) (27) (28) (29) (30) \$80 = \$50 = \$50 = \$50 = \$50 = \$50 = \$70 = \$70 = \$400 =	\$790 \$270 \$570 \$920 700 800 500 300 800 17.3 28.8 124.8 133.7 813.2 \$160 \$210 \$\$100 \$\$1000 \$\$1000 \$\$1000
<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(20)</li> </ul>	100 + 40 = 140 $1000 + 49 = 1049$ $2000+500+26 = 2526$ $60 + 60 + 5 = 125$ $70 + 70 + 5 = 145$ $100 + 100 + 9 = 209$ $200 + 200 + 43 = 243$ $80 + 23 = 103$ $30 + 155 = 185$ $240 + 33 = 273$ $50 + 526 = 576$ $300+100+60+30+2+7 = 499$ $100+500+40+20+5+4 = 669$ $200-100+60-20+7-4 = 143$ $500-200+30-10+9-6 = 323$ $170 - 6 + 5 = 169$ $320 - 9 + 6 = 317$ $430 - 8 + 2 = 424$ $530 - 7 + 1 = 524$ $1 + 30 + 4 = 35$	<ul> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(20)</li> </ul>	190 470 260 26 + 49 + 58 + 67 + 118 + 65 - 187 - 279 - 358 - 422 -	-1 = 1 -6 = 2 -2 = 2 -56 = -178 = -178 = -1233 = -1	189 464 258 82 93 114 245 : 341 35 117 239 258 332		2) 3) 4) 5) 6) 7) 8) 9) 1) 2) 3) 4)	8.04, 12.6, 18.3 23.71m 23.37m 23.65m 23.71, 23.65, 23.5 23.48, 23.37 6 30.1, 31.9, 32.9 30.1, 31.9, 32.9, 33 34.4, 35.8, 36.3, 37 0.987kg 1.036kg 1.012kg 1kg 0.987, 0.996, 1.01 1.023, 1.036 14.9572, 14.9725 14.9752, 15.000, 15.2479, 15.2497	2, .4, .7 2,	<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(21)</li> <li>(22)</li> <li>(23)</li> <li>(24)</li> <li>(25)</li> <li>(31)</li> <li>(32)</li> <li>(33)</li> <li>(34)</li> <li>(35)</li> <li>(36)</li> <li>(37)</li> <li>(38)</li> </ul>	\$80 \$100 \$70 \$150 300 800 200 400 200 3.5 7.6 1.9 3.8 1.6 \$80 + \$160 + \$160 + \$300 + \$300 + \$230 - \$2400 -	(7) (8) (9) (10) (16) (17) (18) (19) (20) (26) (27) (28) (29) (29) (29) (29) (30) \$80 = \$500 = \$700 = \$700 = \$700 = \$500 \$1000	\$790 \$270 \$570 \$920 700 800 500 300 800 17.3 28.8 124.8 133.7 813.2 \$160 = \$210 = \$210 = \$40 = \$1000 = \$1000 = \$600 = \$1400
<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(20)</li> <li>(21)</li> </ul>	100 + 40 = 140 $1000 + 49 = 1049$ $2000+500+26 = 2526$ $60 + 60 + 5 = 125$ $70 + 70 + 5 = 145$ $100 + 100 + 9 = 209$ $200 + 200 + 43 = 243$ $80 + 23 = 103$ $30 + 155 = 185$ $240 + 33 = 273$ $50 + 526 = 576$ $300+100+60+30+2+7 = 499$ $100+500+40+20+5+4 = 669$ $200-100+60-20+7-4 = 143$ $500-200+30-10+9-6 = 323$ $170 - 6 + 5 = 169$ $320 - 9 + 6 = 317$ $430 - 8 + 2 = 424$ $530 - 7 + 1 = 524$ $1 + 30 + 4 = 35$ $2 + 20 + 5 = 27$	<ul> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(20)</li> <li>(21)</li> </ul>	190 470 260 26 + 49 + 58 + 67 + 118 + 65 - 187 - 279 - 358 - 422 - 422 -	-1 = 1 -6 = 2 -2 = 2 -56 = -178 = -233 =	189 464 258 82 93 114 245 : 341 35 117 239 258 332 258 332		2) 3) 4) 5) 6) 7) 8) 9) 1) 2) 3) 4)	8.04, 12.6, 18.3 23.71m 23.37m 23.65m 23.71, 23.65, 23.5 23.48, 23.37 6 30.1, 31.9, 32.9 30.1, 31.9, 32.9, 33 34.4, 35.8, 36.3, 37 0.987kg 1.036kg 1.012kg 1kg 0.987, 0.996, 1.01 1.023, 1.036 14.9572, 14.9725 14.9752, 15.000,	2, .4, .7 2,	<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(21)</li> <li>(22)</li> <li>(23)</li> <li>(24)</li> <li>(25)</li> <li>(31)</li> <li>(32)</li> <li>(33)</li> <li>(34)</li> <li>(35)</li> <li>(36)</li> <li>(37)</li> <li>(38)</li> <li>(39)</li> </ul>	\$80 \$100 \$70 \$150 300 800 200 400 200 3.5 7.6 1.9 3.8 1.6 \$80 + \$100 \$230 - \$300 + \$ \$600 + \$1100 - \$2400 - \$7.70 +	(7) (8) (9) (10) (16) (17) (18) (19) (20) (26) (27) (28) (29) (29) (29) (30) \$80 = \$500 = \$700 = \$700 = \$400 = \$500 \$1000 \$8.30 =	\$790 \$270 \$570 \$920 700 800 500 300 800 17.3 28.8 124.8 133.7 813.2 \$160 = \$210 = \$210 = \$40 = \$160 = \$1000 = \$1000 = \$1000 = \$1400 = \$16.00
<ol> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(20)</li> <li>(21)</li> <li>(22)</li> </ol>	100 + 40 = 140 $1000 + 49 = 1049$ $2000+500+26 = 2526$ $60 + 60 + 5 = 125$ $70 + 70 + 5 = 145$ $100 + 100 + 9 = 209$ $200 + 200 + 43 = 243$ $80 + 23 = 103$ $30 + 155 = 185$ $240 + 33 = 273$ $50 + 526 = 576$ $300+100+60+30+2+7 = 499$ $100+500+40+20+5+4 = 669$ $200-100+60-20+7-4 = 143$ $500-200+30-10+9-6 = 323$ $170 - 6 + 5 = 169$ $320 - 9 + 6 = 317$ $430 - 8 + 2 = 424$ $530 - 7 + 1 = 524$ $1 + 30 + 4 = 35$ $2 + 20 + 5 = 27$	<ul> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(20)</li> <li>(21)</li> <li>(22)</li> </ul>	190 470 260 26 + 49 + 58 + 67 + 118 + 65 - 187 - 279 - 358 - 422 - 422 -	-1 = 1 -6 = 2 -2 = 2 -56 = -178 = -223 = -233 =	189 464 258 82 93 114 245 341 35 117 239 258 332 258 332		2) 3) 4) 5) 6) 7) 8) 9) 1) 2) 3) 4)	8.04, 12.6, 18.3 23.71m 23.65m 23.71, 23.65, 23.5 23.48, 23.37 6 30.1, 31.9, 32.9 30.1, 31.9, 32.9, 33 34.4, 35.8, 36.3, 37 0.987kg 1.036kg 1.012kg 1kg 0.987, 0.996, 1.01 1.023, 1.036 14.9572, 14.9725 14.9752, 15.000, 15.2479, 15.2497	2, .4, .7 2,	<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(21)</li> <li>(22)</li> <li>(23)</li> <li>(24)</li> <li>(25)</li> <li>(31)</li> <li>(32)</li> <li>(33)</li> <li>(34)</li> <li>(35)</li> <li>(36)</li> <li>(37)</li> <li>(38)</li> <li>(39)</li> <li>(40)</li> </ul>	\$80 \$100 \$70 \$150 300 800 200 400 200 3.5 7.6 1.9 3.8 1.6 \$80 + \$100 \$230 - \$300 + \$300 + \$100 \$230 - \$300 + \$100 \$230 - \$300 + \$100 \$150	(7) (8) (9) (10) (16) (17) (18) (19) (20) (26) (27) (28) (29) (29) (29) (29) (29) (29) (29) (29	\$790 \$270 \$570 \$920 700 800 500 300 800 17.3 28.8 124.8 133.7 813.2 \$160 = \$210 = \$160 = \$1000 = \$1000 = \$1000 = \$1400 = \$1400 = \$13.40
<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(20)</li> <li>(21)</li> <li>(22)</li> <li>(23)</li> </ul>	100 + 40 = 140 $1000 + 49 = 1049$ $2000+500+26 = 2526$ $60 + 60 + 5 = 125$ $70 + 70 + 5 = 145$ $100 + 100 + 9 = 209$ $200 + 200 + 43 = 243$ $80 + 23 = 103$ $30 + 155 = 185$ $240 + 33 = 273$ $50 + 526 = 576$ $300+100+60+30+2+7 = 499$ $100+500+40+20+5+4 = 669$ $200-100+60-20+7-4 = 143$ $500-200+30-10+9-6 = 323$ $170 - 6 + 5 = 169$ $320 - 9 + 6 = 317$ $430 - 8 + 2 = 424$ $530 - 7 + 1 = 524$ $1 + 30 + 4 = 35$ $2 + 20 + 5 = 27$ $3 + 40 + 2 = 45$	<ul> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(9)</li> <li>(10)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(16)</li> <li>(17)</li> <li>(18)</li> <li>(19)</li> <li>(20)</li> <li>(21)</li> <li>(22)</li> <li>(23)</li> </ul>	190 470 260 26 + 49 + 58 + 67 + 118 + 65 - 187 - 279 - 358 - 422 - 422 - 422 -	-1 = 1 -6 = 2 -2 = 2 -56 = -178 = -223 = -233 =	189 464 258 82 93 114 245 341 35 117 239 258 332 258 332		2) 3) 4) 5) 6) 7) 8) 9) 1) 2) 3) 4)	8.04, 12.6, 18.3 23.71m 23.65m 23.71, 23.65, 23.5 23.48, 23.37 6 30.1, 31.9, 32.9 30.1, 31.9, 32.9, 33 34.4, 35.8, 36.3, 37 0.987kg 1.036kg 1.012kg 1kg 0.987, 0.996, 1.01 1.023, 1.036 14.9572, 14.9725 14.9752, 15.000, 15.2479, 15.2497	2, .4, .7 2,	<ul> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(11)</li> <li>(12)</li> <li>(13)</li> <li>(14)</li> <li>(15)</li> <li>(21)</li> <li>(22)</li> <li>(23)</li> <li>(24)</li> <li>(25)</li> <li>(31)</li> <li>(32)</li> <li>(33)</li> <li>(34)</li> <li>(35)</li> <li>(36)</li> <li>(37)</li> <li>(38)</li> <li>(39)</li> <li>(40)</li> <li>(41)</li> </ul>	\$80 \$100 \$70 \$150 300 800 200 400 200 3.5 7.6 1.9 3.8 1.6 \$80 + \$100 \$230 - \$300 + \$ \$600 + \$1100 - \$2400 - \$7.70 +	(7) (8) (9) (10) (16) (17) (18) (19) (20) (26) (27) (28) (29) (29) (30) \$80 = - \$50 = - \$60 \$700 = \$700 = \$400 = \$500 \$1000 \$8.30 = \$3.90 = \$3.90 =	\$790 \$270 \$570 \$920 700 800 500 300 800 17.3 28.8 124.8 133.7 813.2 \$160 \$210 \$410 \$160 \$1000 \$1000 \$1000 \$1000 \$11.0000\$1000\$1

9				10				11				12			
(1)	7 14	<b>21</b> , 28	25	(1)		<b>24</b> , 32	2 10	(1)	28 shapes	÷7=4	1 groups	(1)		5) + (	5 x 5)
		<u>21</u> , 20 ), <u>56</u> , 6			·	6, <u><b>64</b>,</u> 7	·	(1)	49 shapes		<b>°</b> .		= 350	+ 25	= 375
(2)	28 is the sam	me as 7 x	4 = 28	(2)	32 is the sa	me as 8 X	4 = 32	(3)	21 shapes	s ÷ 7 = 3	3 groups	(2)		6) + ( + 42	7 x 6) = 402
(3)	49 is the sam			(3)	56 is the sa			(4)	35 shapes		•	(3)		7) + (4	
(4)	35 is the same			(4)	40 is the same			(5)		÷ 7 = 1	• .			+ 28	
(5) (6)	14 is the san 56 is the san			(5) (6)	16 is the sau 64 is the sau			(6) (7)	63 shapes 42 shapes		• .	(4)		(3)-( 0-6=	(2 x 3) = 294
(0)	21 is the san			(0)	24 is the sat						Ŭ .	(5)	(90 x	4) - (4	4 x 4)
(7)	63 is the san			(7)	72 is the sa			(8)	56 shapes		• .		= 360	) - 16 :	= 344
(0)	42 is the san			(0)	48 is the sa			(9)	70 shapes 14 shapes			(6)	<b>x</b>		(3 x 4) = 1588
(10)	70 is the same				80 is the sam			(10)			• .	(7)			8 x 6)
(11)	7	(21)	2	(11)		(21)	2	(11)	24 square		· ·	()	•	, ,	= 1752
(12)	28	(22)	8	(12)		(22)	8	(12)	48 square	· · · · · · · · · · · · · · · · · · ·		(8)	(600)	k 7) - (	6 x 7)
(13)	42	(23)	3	(13)		(23)	3	(13)	72 square				= 4200	) - 42 :	= 4158
(14)	63	(24)	7	(14)		(24)	7	(14)	32 square	s ÷ 8 = 4	4 groups	(9)			(9 x 8)
(15)	70	(25)	6	(15)	80	(25)	6	(15)	56 square	s <b>÷ 8 =</b> 7	7 groups	(1.2)			= 2472
(16)	35	(26)	4	(16)		(26)	4	(16)	16 square	s ÷ 8 = 2	2 groups	(10)			(6 x 6) = 4236
(17)	14	(27)	1	(17)	16	(27)	1	(17)	80 squares	÷ 8 = 1	$0  { m groups}$	(11)		(12 =	
(18)	49	(28)	5	(18)	56	(28)	5	(18)	64 square	s ÷ 8 = 8	8 groups	(12)		(10 =	
(19)	21	(29)	10	(19)	24	(29)	10	(19)	8 squares	s ÷ 8 = 1	1 group	(13)		(27 =	270
(20)	56	(30)	9	(20)	64	(30)	9	(20)	40 square	s ÷ 8 = {	5 groups	(14)		(14 =	
(31)	\$8.00	x 7 = \$	56.00	(31)	\$9.00	x 8 = \$	72.00	(21)	\$42.00	) ÷ 7 = §	6.00	(15)		50 = 2	
(32)	\$4.00 >	x 7 = \$	28.00	(32)	\$5.00	x 8 = \$	40.00	(22)	\$24.00	) ÷ 8 = §	63.00	(16)		(19) (20)	609 4168
(33)	\$56.00			(33)				(23)		) ÷ 8 = \$		(17) (18)		(20)	4100 1870
			ψ0.00				ψ0.00	(=0)	φ1 <u></u>		<b>JJ.UU</b>			(,	10/0
			φ0.00			,	40.00				p3.00			( )	1070
13 (1)		4) + (24	l ÷ 4)	14		1	<u>1</u> out of <u>2</u>	(1)		<sup>1</sup> / <sub>9,</sub> <sup>1</sup> / <sub>8,</sub>		<b>16</b> (1)			
13	= 10 (100 ÷	4) + (24 ) + 6 = 5) + (23	↓ ÷ 4) 16 5 ÷ 5)	14		(2)	<u>1</u> out of <u>2</u> <u>1</u> out of <u>3</u>	15	<sup>1</sup> / <sub>10,</sub>		1/7,	16 (1) (2)	a = 26 b = 26	(11) (12)	k = 6 m = 9
<b>13</b> (1)	= 10 (100 ÷ = 20 (60 ÷ 0	4) + (24 ) + 6 = 5) + (29 ) + 5 = 6) + (42	l ÷ 4) 16 5 ÷ 5) 25 2 ÷ 6)	1 4 (1) (3)	one half $1/_3$ one quarter	(2) (4) (6)	$\frac{1}{2} \text{ out of } \frac{2}{3}$	15	<sup>1</sup> / <sub>10,</sub>	<sup>1</sup> / <sub>9,</sub> <sup>1</sup> / <sub>8,</sub>	1/7,	16 (1) (2) (3)	a = 26 b = 26 c = 13	(11) (12) (13)	k = 6 m = 9 n = 4
<b>13</b> (1) (2) (3)	= 10 (100 ÷ = 20 (60 ÷ 0 = 10	4) + (24 ) + 6 = 5) + (29 ) + 5 = 6) + (42 ) + 7 =	I ÷ 4) 16 5 ÷ 5) 25 2 ÷ 6) 17	1 4 (1) (3)	one half $1/3$	(2) (4) (6)	$\frac{1}{2} \text{ out of } \frac{2}{3}$ $\frac{1}{1/4}$ $\frac{1}{2} \text{ out of } \frac{5}{3}$	<b>15</b> (1)	<sup>1</sup> / <sub>10,</sub>	<sup>1</sup> / <sub>9,</sub> <sup>1</sup> / <sub>8,</sub>	1/7,	16 (1) (2) (3) (4)	a = 26 b = 26 c = 13 d = 29	(11) (12) (13) (14)	k = 6 m = 9 n = 4 p = 3
13 (1) (2) (3) (4)	= 1( (100 ÷ = 2() (60 ÷ () = 1() (70 ÷ = 1()) = 1() (70 ÷ -) =	4) + (24 0 + 6 = 5) + (29 0 + 5 = 6) + (42 0 + 7 = 7) + (42 0 + 6 =	4 ÷ 4) 16 5 ÷ 5) 25 2 ÷ 6) 17 2 ÷ 7) 16	14 (1) (3) (5) (7) (9)	one half $1/_3$ one quarter $1/_5$ one sixth	(2) (4) (6) (8) (10)	$\frac{1}{2} \text{ out of } \frac{2}{3}$ $\frac{1}{1/4}$ $\frac{1}{4} \text{ out of } \frac{5}{5}$ $\frac{1}{6}$	<b>15</b> (1)	<sup>1</sup> / <sub>10,</sub>	<sup>1</sup> / <sub>9,</sub> <sup>1</sup> / <sub>8,</sub>	1/7,	16 (1) (2) (3)	a = 26 b = 26 c = 13	(11) (12) (13) (14) (15)	k = 6 m = 9 n = 4 p = 3 q=1100
<b>13</b> (1) (2) (3)	= 10  (100 ÷  = 20  (60 ÷ 0  = 10  (70 ÷  = 10  (80 ÷ 8  = 10  = 10  (80 ÷ 8  (80 ÷ 8  (80 ÷ 8  (80 ÷ 8  (80 ÷ 8  (80 ÷ 8  (80 ÷ 8  (80 ÷ 8  (80 ÷ 8  (80 ÷ 8  (80 ÷ 8  (80 ÷ 8  (80 ÷ 8 )	4) + (24 ) + 6 = 5) + (29 ) + 5 = 6) + (42 ) + 7 = 7) + (42 ) + 6 = 8) + (40 ) + 5 =	I ÷ 4) 16 5 ÷ 5) 25 2 ÷ 6) 17 2 ÷ 7) 16 ) ÷ 8) 15	14 (1) (3) (5) (7) (9) (11)	one half $1/_3$ one quarter $1/_5$ one sixth one tenth	(2) (4) (6) (8) (10)	$\frac{1}{2} \text{ out of } \frac{2}{3}$ $\frac{1}{1/4}$ $\frac{1}{4} \text{ out of } \frac{5}{5}$ $\frac{1}{6}$	<b>15</b> (1)	<sup>1</sup> / <sub>10,</sub> <sup>1</sup> / <sub>6,</sub> <b>C</b>	<sup>1</sup> / <sub>9,</sub> <sup>1</sup> / <sub>8,</sub>	1/7,	1 6 (1) (2) (3) (4) (5)	a = 26 b = 26 c = 13 d = 29 e = 25 f = 102 g = 87	(11) (12) (13) (14) (15) (16)	k = 6 m = 9 n = 4 p = 3 q=1100
13 (1) (2) (3) (4)	$= 10$ $(100 \div)$ $= 20$ $(60 \div)$ $= 10$ $(70 \div)$ $= 10$ $(80 \div)$ $= 10$ $(600 \div)$	4) + (24) + (24) + (25) + (2	I ÷ 4) 16 5 ÷ 5) 25 2 ÷ 6) 17 2 ÷ 7) 16 ) ÷ 8) 15 i ÷ 2)	14 (1) (3) (5) (7) (9)	one half $1/_3$ one quarter $1/_5$ one sixth one tenth	(2) (4) (6) (8) (10)	$\frac{1}{2} \text{ out of } \frac{2}{3}$ $\frac{1}{1/4}$ $\frac{1}{4} \text{ out of } \frac{5}{3}$ $\frac{1}{6}$ $\frac{1}{6} \text{ out of } \frac{10}{3}$	<b>15</b> (1)	<sup>1</sup> / <sub>10,</sub> <sup>1</sup> / <sub>6,</sub> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>c</b> <b>b</b> B	<sup>1</sup> / <sub>9,</sub> <sup>1</sup> / <sub>8,</sub>	1/7. 1/3	16 (1) (2) (3) (4) (5) (6) (7) (8)	a = 26 b = 26 c = 13 d = 29 e = 25 f = 102 g = 87 h = 74	(11) (12) (13) (14) (15) (16) (17) (18)	k = 6 m = 9 n = 4 p = 3 q=1100 r = 8 s = 5 t = 475
13 (1) (2) (3) (4) (5)	$= 10$ $(100 \div = 20)$ $= 20$ $(60 \div = 10)$ $(70 \div = 10)$ $(80 \div = 10)$ $(80 \div = 30)$ $(600 \div = 30)$ $(600 \div = 30)$	4) + (2	$\begin{array}{c} 1 \div 4) \\ 16 \\ 5 \div 5) \\ 25 \\ 2 \div 6) \\ 17 \\ 2 \div 7) \\ 16 \\ 1 \div 8) \\ 15 \\ 1 \div 2) \\ 296 \\ 2 \div 6) \end{array}$	14 (1) (3) (5) (7) (9) (11)	one half $1/_3$ one quarter $1/_5$ one sixth one tenth $4/_5$ , $3/_6$	(2) (4) (6) (8) (10) (12) <u>1</u>	$\frac{1}{2} \text{ out of } \frac{2}{3}$ $\frac{1}{1/4}$ $\frac{1}{4} \text{ out of } \frac{5}{3}$ $\frac{1}{6} \text{ out of } \frac{10}{5}$	<b>15</b> (1) (2)	<sup>1</sup> / <sub>10,</sub> <sup>1</sup> / <sub>6,</sub> <b>c</b> <b>c</b> <b>c</b> <b>b</b> <b>b</b> <sup>1</sup> / <sub>3,</sub> <sup>2</sup> / <sub>3</sub>	<sup>1</sup> / <sub>9</sub> , <sup>1</sup> / <sub>8</sub> , <sup>1</sup> / <sub>1</sub> , <sup>1</sup> / <sub>1</sub> , <sup>1</sup> / <sub>2</sub> , <sup>1</sup> / <sub>4</sub> , <sup>1</sup>	1/7. 1/3 ×	16 (1) (2) (3) (4) (5) (6) (7) (8) (9)	a = 26 b = 26 c = 13 d = 29 e = 25 f = 102 g = 87 h = 74 i = 47	(11) (12) (13) (14) (15) (16) (17) (18) (19)	k = 6 m = 9 n = 4 p = 3 q=1100 r = 8 s = 5 t = 475 u = 5
13 (1) (2) (3) (4) (5) (6)	= 10  (100 ÷  = 20  (60 ÷ 0 = 10  (70 ÷  = 10  (80 ÷ 10 = 10  (80 ÷ 10 = 10  (600 ÷ = 30  (600 ÷ = 10  (1600 = 10 = 10  (160	4) + (24) + (24) + (24) + (25) + (2	$\begin{array}{c} 1 \div 4) \\ 16 \\ 5 \div 5) \\ 25 \\ 2 \div 6) \\ 17 \\ 2 \div 7) \\ 16 \\ 1 \div 8) \\ 15 \\ 1 \\ 296 \\ 2 \div 6) \\ 98 \\ 6 \div 8) \end{array}$	14 (1) (3) (5) (7) (9) (11)	one half $1/_3$ one quarter $1/_5$ one sixth one tenth $4/_5$ , $3/_6$ $4/_9$ ,	(2) (4) (6) (8) (10) (12) <u>1</u> or <sup>1</sup> / <sub>2</sub> , <sup>5</sup>	$\frac{1}{2} \text{ out of } \frac{2}{3}$ $\frac{1}{1/4}$ $\frac{1}{4} \text{ out of } \frac{5}{3}$ $\frac{1}{6} \text{ out of } \frac{10}{5}$	<b>15</b> (1) (2) (3)	<sup>1</sup> / <sub>10,</sub> <sup>1</sup> / <sub>6,</sub> <sup>C</sup> <sup>C</sup> <sup>C</sup> <sup>B</sup> <sup>D</sup> <sup>B</sup> <sup>1</sup> / <sub>3</sub> , <sup>2</sup> / <sub>3</sub>	<sup>1</sup> / <sub>9</sub> , <sup>1</sup> / <sub>8</sub> , <sup>1</sup> / <sub>5</sub> , <sup>1</sup> / <sub>4</sub> , <sup>1</sup> <sup>1</sup> / <sub>5</sub> , <sup>1</sup> / <sub>4</sub> , <sup>1</sup> <sup>3</sup> / <sub>3</sub> , <sup>4</sup> / <sub>3</sub> , <sup>4</sup> / <sub>3</sub>	1/7, 1/3 × , <sup>5</sup> /3, <b>2/3</b>	16 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)	a = 26 b = 26 c = 13 d = 29 e = 25 f = 102 g = 87 h = 74 i = 47 j = 102	(11) (12) (13) (14) (15) (16) (17) (18) (19) (20)	k = 6 m = 9 n = 4 p = 3 q=1100 r = 8 s = 5 t = 475 u = 5 v = 8
13 (1) (2) (3) (4) (5) (6) (7)	$ = 10 $ $ (100 \div $ $ = 20 $ $ (60 \div ) $ $ = 10 $ $ (70 \div ) $ $ = 10 $ $ (80 \div ) $ $ = 30 $ $ (600 \div ) $ $ = 30 $ $ (600 \div ) $ $ = 10 $ $ (1600 \div ) $ $ = 200 $ $ (800 \div ) $	4) + (24) + (24) + (24) + (24) + (25) + (25) + (25) + (25) + (25) + (42) + (4	$\begin{array}{c} 1 \div 4) \\ 16 \\ 5 \div 5) \\ 25 \\ 2 \div 6) \\ 17 \\ 2 \div 7) \\ 16 \\ 1 \div 8) \\ 15 \\ 1 \div 2) \\ 296 \\ 2 \div 6) \\ 98 \\ 6 \div 8) \\ 198 \\ 2 \div 4) \end{array}$	14 (1) (3) (5) (7) (9) (11) (13)	one half $1/_3$ one quarter $1/_5$ one sixth one tenth $4/_5$ , $3/_6$ $4/_9$ ,	(2) (4) (6) (8) (10) (12) <u>1</u> or <sup>1</sup> / <sub>2</sub> , <sup>5</sup>	$\frac{1}{2} \text{ out of } \frac{2}{3}$ $\frac{1}{1/4}$ $\frac{1}{4} \text{ out of } \frac{5}{3}$ $\frac{1}{6} \text{ out of } \frac{10}{5}$	<b>15</b> (1) (2)	<sup>1</sup> / <sub>10,</sub> <sup>1</sup> / <sub>6,</sub> <sup>C</sup> <sup>C</sup> <sup>B</sup> <sup>D</sup> <sup>B</sup> <sup>1</sup> / <sub>3</sub> , <sup>2</sup> / <sub>3</sub> <sup>6</sup> / <sub>3</sub> , <sup>1</sup> / <sub>5</sub> , <sup>2</sup> / <sub>5</sub>	<sup>1</sup> / <sub>9</sub> , <sup>1</sup> / <sub>8</sub> , <sup>1</sup> / <sub>5</sub> , <sup>1</sup> / <sub>4</sub> , <sup>1</sup> <sup>3</sup> , <sup>3</sup> / <sub>3</sub> , <sup>4</sup> / <sub>3</sub> <sup>7</sup> / <sub>3</sub> , <sup>8</sup> / <sub>3</sub> , <sup>5</sup> 5, <sup>3</sup> / <sub>5</sub> , <sup>4</sup> / <sub>5</sub>	1/7, 1/3 , <sup>5</sup> /3, <b>7</b> /3 , <sup>5</sup> /5,	16 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (21)	a = 26 b = 26 c = 13 d = 29 e = 25 f = 102 g = 87 h = 74 i = 47 j = 102	(11) (12) (13) (14) (15) (16) (17) (18) (19) (20) \$38.00	k = 6 m = 9 n = 4 p = 3 q=1100 r = 8 s = 5 t = 475 u = 5 v = 8
13 (1) (2) (3) (4) (5) (6) (7) (8)	= 10 $ (100 ÷ $ $ = 20 $ $ (60 ÷ 1) $ $ = 10 $ $ (70 ÷$	4) + (24) + (24) + (24) + (24) + (25) + (2	$\begin{array}{c} 1 \div 4) \\ 16 \\ 5 \div 5) \\ 25 \\ 2 \div 6) \\ 17 \\ 2 \div 7) \\ 16 \\ 0 \div 8) \\ 15 \\ 0 \div 8) \\ 15 \\ 0 \div 8) \\ 198 \\ 2 \div 6) \\ 98 \\ 6 \div 8) \\ 198 \\ 2 \div 4) \\ 208 \\ 21 \div 7) \end{array}$	14 (1) (3) (5) (7) (9) (11) (13)	one half $1/_3$ one quarter $1/_5$ one sixth one tenth $4/_5$ , $3/_6$ $4/_9$ ,	(2) (4) (6) (8) (10) (12) <u>1</u> or <sup>1</sup> / <sub>2</sub> , <sup>5</sup>	$\frac{1}{2} \text{ out of } \frac{2}{3}$ $\frac{1}{1/4}$ $\frac{1}{4} \text{ out of } \frac{5}{3}$ $\frac{1}{6} \text{ out of } \frac{10}{5}$	<b>15</b> (1) (2) (3)	$1/_{10,}$ $1/_{6,}$ $0 = 0$ $1/_{3,} 2/_{3}$ $1/_{5,} 2/_{5}$ $6/_{5,} 7/_{5}$	<sup>1</sup> / <sub>9</sub> , <sup>1</sup> / <sub>8</sub> , <sup>1</sup> / <sub>1</sub> , <sup>1</sup> / <sub>4</sub> , <sup>1</sup> / <sub>5</sub> , <sup>1</sup> / <sub>4</sub> , <sup>1</sup> / <sub>5</sub> , <sup>1</sup> / <sub>4</sub> , <sup>1</sup> / <sub>5</sub> , <sup>1</sup> / <sub>3</sub> , <sup>8</sup> / <sub>3</sub> , <sup>5</sup> / <sub>5</sub> , <sup>3</sup> / <sub>5</sub> , <sup>8</sup> / <sub>3</sub> , <sup>5</sup> / <sub>5</sub> , <sup>3</sup> / <sub>5</sub> , <sup>4</sup> / <sub>5</sub> , <sup>3</sup> / <sub>5</sub> , <sup>9</sup> / <sub>5</sub> ,	1/7, 1/3 x , <sup>5</sup> /3, <b>7</b> /3 , <sup>5</sup> /5, 10/5,	16 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)	a = 26b = 26c = 13d = 29e = 25f = 102g = 87h = 74i = 47j = 102	(11) (12) (13) (14) (15) (16) (17) (18) (19) (20)	k = 6 m = 9 n = 4 p = 3 q=1100 r = 8 s = 5 t = 475 u = 5 v = 8
13 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)	= 10 $ (100 ÷ $ $ = 20 $ $ (60 ÷ 0 $ $ = 10 $ $ (70 ÷$	4) + (24) + (24) + (24) + (25) + (25) + (25) + (25) + (25) + (25) + (42) + (4	$1 \div 4$ ) 16 $5 \div 5$ ) 25 $2 \div 6$ ) 17 $2 \div 7$ ) 16 $2 \div 7$ ) 15 $2 \div 2$ ) 296 $2 \div 6$ ) 98 $6 \div 8$ ) 198 $2 \div 4$ ) 208 $2 \div 4$ ) 208 $21 \div 7$ ) 203	14 (1) (3) (5) (7) (9) (11) (13)	one half $1/_3$ one quarter $1/_5$ one sixth one tenth $4/_5$ , $3/_6$ $4/_9$ ,	(2) (4) (6) (8) (10) (12) <u>1</u> or <sup>1</sup> / <sub>2</sub> , <sup>5</sup>	$\frac{1}{2} \text{ out of } \frac{2}{3}$ $\frac{1}{1/4}$ $\frac{1}{4} \text{ out of } \frac{5}{3}$ $\frac{1}{6} \text{ out of } \frac{10}{5}$	<b>15</b> (1) (2) (3)	$1/_{10,}$ $1/_{6,}$ $0 = 0$ $1/_{3,} 2/_{3}$ $1/_{5,} 2/_{5}$ $6/_{5,} 7/_{5}$	<sup>1</sup> / <sub>9</sub> , <sup>1</sup> / <sub>8</sub> , <sup>1</sup> / <sub>5</sub> , <sup>1</sup> / <sub>4</sub> , <sup>1</sup> <sup>3</sup> , <sup>3</sup> / <sub>3</sub> , <sup>4</sup> / <sub>3</sub> <sup>7</sup> / <sub>3</sub> , <sup>8</sup> / <sub>3</sub> , <sup>5</sup> 5, <sup>3</sup> / <sub>5</sub> , <sup>4</sup> / <sub>5</sub>	1/7, 1/3 x , <sup>5</sup> /3, <b>7</b> /3 , <sup>5</sup> /5, 10/5,	16 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (21) (22)	a = 26 b = 26 c = 13 d = 29 e = 25 f = 102 g = 87 h = 74 i = 47 j = 102	(11) (12) (13) (14) (15) (16) (17) (18) (19) (20) \$38.00	k = 6 m = 9 n = 4 p = 3 q=1100 r = 8 s = 5 t = 475 u = 5 v = 8
13 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11)	$= 10$ $(100 \div)$ $= 20$ $(60 \div)$ $= 10$ $(70 \div)$ $= 10$ $(80 \div)$ $= 10$ $(600 \div)$ $= 30$ $(600 \div)$ $= 200$ $(800 \div)$ $= 200$ $(1400 \div)$ $= 200$ $(1400 \div)$ $= 200$ $(72 \div 6)$	4) + (24) + (24) + (24) + (25) + (25) + (25) + (25) + (25) + (25) + (42) + (4	$\begin{array}{c} 1 \div 4) \\ 16 \\ 5 \div 5) \\ 25 \\ 2 \div 6) \\ 17 \\ 2 \div 7) \\ 16 \\ 0 \div 8) \\ 15 \\ 2 \div 6) \\ 98 \\ 6 \div 8) \\ 198 \\ 2 \div 4) \\ 208 \\ 21 \div 7) \\ 203 \\ 3 = 12 \end{array}$	14 (1) (3) (5) (7) (9) (11) (13) (14)	one half $1/_3$ one quarter $1/_5$ one sixth one tenth $4/_5$ , $3/_6$ $4/_9$ ,	(2) (4) (6) (8) (10) (12) <u>1</u> 5/ <sub>10</sub> or	$\frac{1}{2} \text{ out of } \frac{2}{3}$ $\frac{1}{4}$ $\frac{1}$	<b>15</b> (1) (2) (3)	<sup>1</sup> / <sub>10</sub> , <sup>1</sup> / <sub>6</sub> , <sup>C</sup> <sup>A</sup> <sup>B</sup> <sup>1</sup> / <sub>3</sub> , <sup>2</sup> / <sub>3</sub> <sup>6</sup> / <sub>3</sub> , <sup>1</sup> / <sub>5</sub> , <sup>2</sup> / <sub>5</sub> <sup>6</sup> / <sub>5</sub> , <sup>7</sup> / <sub>5</sub> <sup>11</sup> / <sub>5</sub>	<sup>1</sup> / <sub>9</sub> , <sup>1</sup> / <sub>8</sub> , <sup>1</sup> / <sub>1</sub> , <sup>1</sup> / <sub>4</sub> , <sup>1</sup> / <sub>5</sub> , <sup>1</sup> / <sub>4</sub> , <sup>1</sup> / <sub>5</sub> , <sup>1</sup> / <sub>4</sub> , <sup>1</sup> / <sub>5</sub> , <sup>1</sup> / <sub>3</sub> , <sup>8</sup> / <sub>3</sub> , <sup>5</sup> / <sub>5</sub> , <sup>3</sup> / <sub>5</sub> , <sup>8</sup> / <sub>3</sub> , <sup>5</sup> / <sub>5</sub> , <sup>3</sup> / <sub>5</sub> , <sup>4</sup> / <sub>5</sub> , <sup>3</sup> / <sub>5</sub> , <sup>9</sup> / <sub>5</sub> ,	1/7, 1/3 , <sup>5</sup> /3, <sup>6</sup> /3 , <sup>5</sup> /5, , <sup>10</sup> /5, /5	16 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (21) (22) (23) (24)	a = 26 b = 26 c = 13 d = 29 e = 25 f = 102 g = 87 h = 74 i = 47 j = 102	(11) (12) (13) (14) (15) (16) (17) (18) (19) (20) \$38.00 \$52.00 \$14.50 \$12.00	k = 6 m = 9 n = 4 p = 3 q=1100 r = 8 s = 5 t = 475 u = 5 v = 8
<b>1 3</b> (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)	$= 10$ $(100 \div)$ $= 20$ $(60 \div)$ $= 10$ $(70 \div)$ $= 10$ $(800 \div)$ $= 10$ $(1600 \div)$ $= 200$ $(800 \div)$ $= 200$ $(1400 \div)$ $= 20$	4) + (24) + (24) + (25) + (2	$\begin{array}{c} 1 \div 4) \\ 16 \\ 5 \div 5) \\ 25 \\ 2 \div 6) \\ 17 \\ 2 \div 7) \\ 16 \\ 0 \div 8) \\ 15 \\ 2 \div 6) \\ 98 \\ 6 \div 8) \\ 198 \\ 2 \div 4) \\ 208 \\ 21 \div 7) \\ 203 \\ 3 = 12 \\ 3 \div 8 \\ 6 \end{array}$	14 (1) (3) (5) (7) (9) (11) (13) (14)	one half $1/_3$ one quarter $1/_5$ one sixth one tenth $4/_5$ , $3/_6$ $4/_9$ , $4/_9$ , 9 (as	(2) (4) (6) (8) (10) (12) <u>1</u> 5/ <sub>10</sub> or 5/ <sub>10</sub> or	$\frac{1}{2} \text{ out of } \frac{2}{3}$ $\frac{1}{1/4}$ $\frac{1}{4} \text{ out of } \frac{5}{3}$ $\frac{1}{6}$ $\frac{1}{6} \text{ out of } \frac{10}{16}$ $\frac{1}{7}, \frac{3}{8}, \frac{1}{2}$ $\frac{1}{3}$ $$	<b>15</b> (1) (2) (3) (4)	<sup>1</sup> / <sub>10</sub> , <sup>1</sup> / <sub>6</sub> , <sup>C</sup> <sup>A</sup> <sup>B</sup> <sup>1</sup> / <sub>3</sub> , <sup>2</sup> / <sub>3</sub> <sup>6</sup> / <sub>3</sub> , <sup>1</sup> / <sub>5</sub> , <sup>2</sup> / <sub>5</sub> <sup>6</sup> / <sub>5</sub> , <sup>7</sup> / <sub>5</sub> <sup>11</sup> / <sub>5</sub> , <sup>2</sup> / <sub>5</sub>	<sup>1</sup> / <sub>9</sub> , <sup>1</sup> / <sub>8</sub> , <sup>1</sup> / <sub>5</sub> , <sup>1</sup> / <sub>4</sub> , <sup>1</sup> <sup>1</sup> / <sub>5</sub> , <sup>1</sup> / <sub>4</sub> , <sup>1</sup> <sup>3</sup> / <sub>3</sub> , <sup>8</sup> / <sub>3</sub> , <sup>9</sup> <sup>5</sup> , <sup>3</sup> / <sub>5</sub> , <sup>4</sup> / <sub>5</sub> <sup>6</sup> , <sup>3</sup> / <sub>5</sub> , <sup>9</sup> / <sub>5</sub> , <sup>12</sup> / <sub>5</sub> , <sup>13</sup> / <sub>7</sub> <sup>6</sup> , <sup>3</sup> / <sub>7</sub> , <sup>4</sup> / <sub>7</sub>	1/7, 1/3 × , <sup>5</sup> /3, <sup>9</sup> /3 , <sup>5</sup> /5, , <sup>10</sup> /5, /5 , <sup>5</sup> /7,	16 (1) (2) (3) (4) (5) (6) (7) (8) (7) (8) (9) (10) (21) (22) (23) (24) (25)	a = 26 b = 26 c = 13 d = 29 e = 25 f = 102 g = 87 h = 74 i = 47 j = 102	(11) (12) (13) (14) (15) (16) (17) (18) (19) (20) \$38.00 \$52.00 \$14.50 \$14.50 \$12.00	k = 6 m = 9 n = 4 p = 3 q=1100 r = 8 s = 5 t = 475 u = 5 v = 8
13 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11)	$= 10$ $(100 \div$ $= 20$ $(60 \div)$ $= 10$ $(70 \div)$ $= 10$ $(800 \div)$ $= 10$ $(1600 \div)$ $= 200$ $(800 \div)$ $= 200$ $(1400 \div)$ $= 20$	4) + (24) + (24) + (25) + (2	$\begin{array}{c} 1 \div 4) \\ 16 \\ 5 \div 5) \\ 25 \\ 2 \div 6) \\ 17 \\ 2 \div 7) \\ 16 \\ 0 \div 8) \\ 15 \\ 2 \div 6) \\ 98 \\ 6 \div 8) \\ 198 \\ 2 \div 6) \\ 98 \\ 6 \div 8) \\ 198 \\ 2 \div 4) \\ 208 \\ 21 \div 7) \\ 203 \\ 3 = 12 \\ 3 \div 8 \\ 6 \\ 0 \div 20 \end{array}$	14 (1) (3) (5) (7) (9) (11) (13) (14) (14)	one half $1/_3$ one quarter $1/_5$ one sixth one sixth one tenth $4/_5$ , $3/_6$ $4/_9$ , $4/_9$ , 9 (as 9 (as 9 (as	(2) (4) (6) (8) (10) (12) $\frac{1}{2}$ $5/_{10}$ or $\frac{1}{2}$ , $\frac{5}{2}$ $3 \times 9 = \frac{5}{2} \times 9 = \frac{1}{2}$	$\frac{1}{2} \text{ out of } \frac{2}{4}$ $\frac{1}{4} \text{ out of } \frac{5}{4}$ $\frac{1}{4} \text{ out of } \frac{5}{4}$ $\frac{1}{6} \text{ out of } \frac{10}{5}$ $\frac{1}{7}, \frac{3}{8}, \frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{$	<b>15</b> (1) (2) (3) (4)	<sup>1</sup> / <sub>10</sub> , <sup>1</sup> / <sub>6</sub> , <sup>c</sup> <sup>c</sup> <sup>b</sup> <sup>b</sup> <sup>b</sup> <sup>b</sup> <sup>1</sup> / <sub>3</sub> , <sup>2</sup> / <sub>3</sub> <sup>6</sup> / <sub>3</sub> , <sup>1</sup> / <sub>5</sub> , <sup>2</sup> / <sub>5</sub> <sup>6</sup> / <sub>5</sub> , <sup>7</sup> / <sub>5</sub> <sup>11</sup> / <sub>5</sub> , <sup>2</sup> / <sub>5</sub> <sup>11</sup> / <sub>5</sub> , <sup>2</sup> / <sub>5</sub>	<sup>1</sup> / <sub>9</sub> , <sup>1</sup> / <sub>8</sub> , <sup>1</sup> / <sub>1</sub> , <sup>1</sup> / <sub>8</sub> , <sup>1</sup> / <sub>1</sub> , <sup>1</sup> / <sub>4</sub> , <sup>1</sup> / <sub>5</sub> , <sup>1</sup> / <sub>4</sub> , <sup>1</sup> / <sub>5</sub> , <sup>1</sup> / <sub>5</sub> , <sup>8</sup> / <sub>3</sub> , <sup>8</sup> / <sub>3</sub> , <sup>5</sup> / <sub>5</sub> , <sup>3</sup> / <sub>5</sub> , <sup>4</sup> / <sub>5</sub> , <sup>3</sup> / <sub>5</sub> , <sup>9</sup> / <sub>5</sub> , <sup>12</sup> / <sub>5</sub> , <sup>13</sup> / <sub>7</sub> , <sup>4</sup> / <sub>7</sub> , <sup>3</sup> / <sub>7</sub> , <sup>4</sup> / <sub>7</sub> , <sup>8</sup> / <sub>7</sub> , <sup>9</sup> / <sub>7</sub> ,	1/7, 1/3 x 5/3, 5/3, 5/3, 5/3, 5/3, 5/3, 5/3, 5/3, 5/3, 10/5, 10/7, 10/7,	16 (1) (2) (3) (4) (5) (6) (7) (8) (7) (8) (7) (8) (7) (10) (21) (22) (23) (24) (25) (26)	a = 26 b = 26 c = 13 d = 29 e = 25 f = 102 g = 87 h = 74 i = 47 j = 102	(11) (12) (13) (14) (15) (16) (17) (18) (19) (20) \$38.00 \$52.00 \$14.50 \$12.00 \$12.00 \$9.00 4 chain	k = 6 m = 9 n = 4 p = 3 q=1100 r = 8 s = 5 t = 475 u = 5 v = 8
13 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12)	= 10 $ (100 ÷ $ $ = 20 $ $ (60 ÷ 0 $ $ = 10 $ $ (70 ÷$	4) + (24) + (24) + (25) + (25) + (25) + (25) + (25) + (25) + (25) + (42) + (4	$(1 \div 4)$ 16 5 ÷ 5) 25 2 ÷ 6) 17 2 ÷ 7) 16 ) ÷ 8) 15 2 ÷ 2) 296 2 ÷ 6) 98 6 ÷ 8) 198 2 ÷ 4) 208 2 ÷ 4) 203 3 = 12 3 ÷ 8 6 0 ÷ 20 3 = 12 3 ÷ 8 6 0 ÷ 20 2 ÷ 8 6 1 ÷ 8 1 ÷ 8 2 ÷ 4 2 ÷ 8 6 ÷ 8 1 ÷ 8 2 ÷ 4 2 ÷ 8 6 ÷ 8 1 ÷ 8 2 ÷ 8 6 ÷ 8 1 ÷ 8 2 ÷ 8 6 ÷ 8 1 ÷ 8 1 ÷ 8 2 ÷ 8 6 ÷ 8 1 ÷ 8 1 ÷ 8 2 ÷ 8 6 ÷ 8 1 ÷ 8 1 ÷ 8 1 ÷ 8 2 ÷ 8 6 ÷ 8 1 ÷ 8 1 ÷ 8 1 ÷ 8 1 ÷ 8 2 ÷ 8 6 ÷ 8 1 ÷ 8	14 (1) (3) (5) (7) (9) (11) (13) (14)	one half $1/_3$ one quarter $1/_5$ one sixth one sixth one tenth $4/_5$ , $3/_6$ $4/_9$ , $4/_9$ , 9 (as 9 (as 8 (as	(2) (4) (6) (8) (10) (12) <u>1</u> 5/ <sub>10</sub> or 5/ <sub>10</sub> or	$\frac{1}{2} \text{ out of } \frac{2}{3}$ $\frac{1}{4}$ $\frac{1}$	<b>15</b> (1) (2) (3) (4)	$\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $	<sup>1</sup> / <sub>9</sub> , <sup>1</sup> / <sub>8</sub> , <sup>1</sup> / <sub>5</sub> , <sup>1</sup> / <sub>4</sub> , <sup>1</sup> <sup>1</sup> / <sub>5</sub> , <sup>1</sup> / <sub>4</sub> , <sup>1</sup> <sup>3</sup> / <sub>3</sub> , <sup>8</sup> / <sub>3</sub> , <sup>9</sup> <sup>5</sup> , <sup>3</sup> / <sub>5</sub> , <sup>4</sup> / <sub>5</sub> <sup>6</sup> , <sup>3</sup> / <sub>5</sub> , <sup>9</sup> / <sub>5</sub> , <sup>12</sup> / <sub>5</sub> , <sup>13</sup> / <sub>7</sub> <sup>6</sup> , <sup>3</sup> / <sub>7</sub> , <sup>4</sup> / <sub>7</sub>	1/7, 1/3 × , <sup>5</sup> /3, <sup>6</sup> /3 , <sup>5</sup> /5, 10/5, /5 , <sup>5</sup> /7, 10/7, 14/7	16 (1) (2) (3) (4) (5) (6) (7) (8) (7) (8) (9) (10) (21) (22) (23) (24) (25)	a = 26 b = 26 c = 13 d = 29 e = 25 f = 102 g = 87 h = 74 i = 47 j = 102	(11) (12) (13) (14) (15) (16) (17) (18) (19) (20) \$38.00 \$52.00 \$14.50 \$14.50 \$12.00	k = 6 m = 9 n = 4 p = 3 q=1100 r = 8 s = 5 t = 475 u = 5 v = 8
13 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13)	= 10 $(100 ÷$ $= 20$ $(60 ÷ 0)$ $= 10$ $(70 ÷$ $= 10$ $(80 ÷ 1)$ $= 300$ $(600 ÷$ $= 300$ $(600 ÷$ $= 200$ $(1600 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 100$ $(140 ÷$ $= 100$ $($	4) + (24) + (24) + (24) + (25) + (25) + (25) + (25) + (25) + (25) + (42) + (4	$(+ \div 4)$ 16 5 ÷ 5) 25 2 ÷ 6) 17 2 ÷ 7) 16 ) ÷ 8) 15 2 ÷ 2) 296 2 ÷ 6) 98 6 ÷ 8) 198 2 ÷ 4) 203 3 = 12 3 ÷ 8 6 0 ÷ 20 = 21 8 ÷ 12 ÷ 3 = 19 6 ÷ 16	14 (1) (3) (5) (7) (9) (11) (13) (13) (14) (14) (14) (15) (16) (17) (18) (19)	one half $1/_3$ one quarter $1/_5$ one sixth one sixth one tenth $4/_5$ , $3/_6$ $4/_9$ , $4/_9$ , 9 (as 9 (as 9 (as 9 (as 9 (as 9 (as 9 (as	(2) (4) (6) (8) (10) (12) $\frac{1}{2}$ $5/_{10}$ or $\frac{1}{2}$ , $\frac{5}{2}$ $5/_{10}$ or $\frac{5}{2}$ , $\frac{9}{2}$ $5 \times \frac{9}{2}$ $5 \times \frac{9}$	$\frac{1}{2} \text{ out of } \frac{2}{4}$ $\frac{1}{4} \text{ out of } \frac{3}{4}$ $\frac{1}{4} \text{ out of } \frac{5}{4}$ $\frac{1}{6} \text{ out of } \frac{10}{5}$ $\frac{1}{7}, \frac{3}{8}, \frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{$	<ul> <li>15</li> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> </ul>	<sup>1</sup> / <sub>10</sub> , <sup>1</sup> / <sub>6</sub> , <sup>1</sup> / <sub>6</sub> , <sup>1</sup> / <sub>6</sub> , <sup>1</sup> / <sub>5</sub> , <sup>2</sup> / <sub>5</sub> <sup>6</sup> / <sub>5</sub> , <sup>7</sup> / <sub>5</sub> <sup>1</sup> / <sub>5</sub> , <sup>2</sup> / <sub>5</sub> <sup>1</sup> / <sub>7</sub> , <sup>2</sup> / <sub>7</sub> <sup>1</sup> / <sub>7</sub> , <sup>2</sup> / <sub>7</sub> <sup>11</sup> / <sub>7</sub> , <sup>1</sup> 18	<sup>1</sup> / <sub>9</sub> , <sup>1</sup> / <sub>8</sub> , <sup>1</sup> / <sub>7</sub> , <sup>1</sup> / <sub>4</sub> , <sup>1</sup> / <sub>7</sub> , <sup>1</sup> / <sub>4</sub> , <sup>1</sup> / <sub>7</sub> , <sup>1</sup> / <sub>7</sub> , <sup>8</sup> / <sub>3</sub> , <sup>9</sup> / <sub>5</sub> , <sup>3</sup> / <sub>5</sub> , <sup>4</sup> / <sub>5</sub> , <sup>9</sup> / <sub>5</sub> , <sup>12</sup> / <sub>5</sub> , <sup>13</sup> / <sub>7</sub> , <sup>4</sup> / <sub>7</sub> , <sup>3</sup> / <sub>7</sub> , <sup>4</sup> / <sub>7</sub> , <sup>8</sup> / <sub>7</sub> , <sup>9</sup> / <sub>7</sub> , <sup>2</sup> / <sub>7</sub> , <sup>13</sup> / <sub>7</sub> , <sup>(9)</sup> / <sub>7</sub>	1/7, 1/3 x , <sup>5</sup> /3, <b>6</b> /3 , <sup>5</sup> /5, 10/5, /5 , <sup>5</sup> /7, 10/7, 14/7 25	16 (1) (2) (3) (4) (5) (6) (7) (8) (7) (8) (7) (8) (7) (10) (21) (22) (23) (24) (25) (26)	a = 26 b = 26 c = 13 d = 29 e = 25 f = 102 g = 87 h = 74 i = 47 j = 102	(11) (12) (13) (14) (15) (16) (17) (18) (19) (20) \$38.00 \$52.00 \$14.50 \$12.00 \$12.00 \$9.00 4 chain	k = 6 m = 9 n = 4 p = 3 q=1100 r = 8 s = 5 t = 475 u = 5 v = 8
13 (1) (2) (3) (4) (5) (6) (7) (8) (7) (8) (9) (10) (11) (12) (11) (12) (13) (14) (15)	$= 10$ $(100 \div = 20$ $(60 \div = 10$ $(70 \div = 10$ $(80 \div = 10$ $(600 \div = 30)$ $(600 \div = 10$ $(600 \div = 20)$ $(1400 \div = 200$ $(1400 \div = 200$ $(1400 \div = 200$ $72 \div 6 = 96 \div = 22$ $840 \div 4 = 211$ $456 \div 2 = 114 \div 6$ $512 \div 3 = 128 \div 8$	$\begin{array}{c} 4) + (24) \\ 0 + 6 = \\ 5) + (24) \\ 0 + 5 = \\ 6) + (42) \\ 0 + 5 = \\ 6) + (42) \\ 0 + 5 = \\ 7) + (42) \\ 0 + 5 = \\ 2) + (42) \\ 0 - 4 = \\ 2) + (42) \\ 0 - 4 = \\ 2) + (42) \\ 0 - 4 = \\ 2) - (8) \\ 0 - 4 = \\ 2) - (8) \\ 0 - 4 = \\ 2) - (8) \\ 0 - 4 = \\ 2) - (8) \\ 0 - 4 = \\ 2) - (8) \\ 0 - 4 = \\ 2) - (8) \\ 0 - 4 = \\ 2) - (8) \\ 0 - 4 = \\ 2) - (8) \\ 0 - 4 = \\ 2) - (8) \\ 0 - 2 = \\ 3) - (10) \\ 0 - (10) \\ 0 - (10) \\ 0 - \\ 0 - (10) \\ 0 - (1$	$(+ \div 4)$ 16 5 ÷ 5) 25 2 ÷ 6) 17 2 ÷ 7) 16 ) ÷ 8) 15 2 ÷ 2) 296 2 ÷ 6) 98 6 ÷ 8) 198 2 ÷ 4) 203 3 = 12 3 ÷ 8 6 0 ÷ 20 2 12 3 ÷ 8 6 0 ÷ 20 2 12 3 = 12 3 ÷ 8 6 0 ÷ 20 2 12 2 15 1 7 2 15 2 15 2 17 2 16 1 7 2 2 5 2 16 1 7 2 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2	14 (1) (3) (5) (7) (9) (11) (13) (13) (14) (14) (14) (15) (16) (17) (18) (19) (20)	one half $1/_3$ one quarter $1/_5$ one sixth one tenth $4/_5$ , $3/_6$ $4/_9$ , $4/_9$ , 9 (as 9 (as 9 (as 9 (as 9 (as 9 (as 9 (as 9 (as 16 (as 1))))))))))))))))))))))))))))))))))))	(2) (4) (6) (8) (10) (12) $\frac{1}{2}$ , $5^{-1}$ or $\frac{1}{2}$ , $5^{-1}$ or $\frac{1}{2}$ , $5^{-1}$ or $\frac{1}{2}$ , $5^{-1}$ or $\frac{1}{2}$ , $5^{-1}$ $\frac{1}{2}$ , $5^{-1}$ $\frac{1}{2$	$\frac{1}{2} \text{ out of } \frac{2}{4}$ $\frac{1}{2} \text{ out of } \frac{3}{4}$ $\frac{1}{4}$ $\frac{1}{4} \text{ out of } \frac{10}{5}$ $\frac{1}{7}, \frac{3}{8}, \frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{$	<ul> <li>15</li> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> </ul>	$1/_{10,}$ $1/_{6,}$ $0$ $1/_{3,}^{2}/_{3}$ $1/_{5,}^{2}/_{5}$ $6/_{5,}^{7}/_{5}$ $1/_{7,}^{2}/_{7}$ $6/_{7,}^{7}/_{7}$ $11/_{7,}^{1}$ $18$ $18$	$ \begin{array}{c} 1/_{9,} & 1/_{8,} \\ 1/_{5,} & 1/_{4,} \\ 1/_{5,} & 1/_{4,} \\ 1/_{5,} & 1/_{4,} \\ 1/_{5,} & 1/_{4,} \\ 1/_{5,} & 1/_{4,} \\ 7/_{3,} & 8/_{3,} \\ 7/_{3,} & 8/_{3,} \\ 7/_{3,} & 8/_{3,} \\ 7/_{3,} & 8/_{3,} \\ 7/_{3,} & 8/_{5,} \\ 12/_{5,} & 13/_{5,} \\ 7/_{5,} & 12/_{5,} \\ 12/_{5,} & 13/_{7,} \\ 7/_{5,} & 8/_{7,} & 9/_{7,} \\ 7/_{7,} & 13/_{7,} \\ (9) \\ (10) \end{array} $	1/7, 1/3 × 5/3, 5/3, 5/3, 5/3, 5/3, 5/3, 5/3, 5/3,	16 (1) (2) (3) (4) (5) (6) (7) (8) (7) (8) (7) (8) (7) (10) (21) (22) (23) (24) (25) (26)	a = 26 b = 26 c = 13 d = 29 e = 25 f = 102 g = 87 h = 74 i = 47 j = 102	(11) (12) (13) (14) (15) (16) (17) (18) (19) (20) \$38.00 \$52.00 \$14.50 \$12.00 \$12.00 \$9.00 4 chain	k = 6 m = 9 n = 4 p = 3 q=1100 r = 8 s = 5 t = 475 u = 5 v = 8
13 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14)	= 10 $(100 ÷$ $= 20$ $(60 ÷ 0)$ $= 10$ $(70 ÷$ $= 10$ $(80 ÷ 1)$ $= 300$ $(600 ÷$ $= 300$ $(600 ÷$ $= 200$ $(1600 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 200$ $(1400 ÷$ $= 100$ $(140 ÷$ $= 100$ $($	4) + (24) + (24) + (24) + (25) + (25) + (25) + (25) + (25) + (25) + (42) + (4	$(+ \div 4)$ 16 5 ÷ 5) 25 2 ÷ 6) 17 2 ÷ 7) 16 ) ÷ 8) 15 2 ÷ 2) 296 2 ÷ 6) 98 6 ÷ 8) 198 2 ÷ 4) 203 3 = 12 3 ÷ 8 6 0 ÷ 20 = 21 8 ÷ 12 ÷ 3 = 19 6 ÷ 16	14 (1) (3) (5) (7) (9) (11) (13) (14) (14) (14) (14) (15) (16) (17) (18) (17) (18) (19) (20) (21)	one half $1/_3$ one quarter $1/_5$ one sixth one sixth one tenth $4/_5$ , $3/_6$ $4/_9$ , $4/_9$ , 9 (as 9 (as 9 (as 9 (as 9 (as 9 (as 16 (as $18$ )	(2) (4) (6) (8) (10) (12) $\frac{1}{2}$ , $\frac{5}{7}$ , $\frac{1}{10}$ or $\frac{5}{7}$ , $\frac{1}{2}$ , $\frac{5}{7}$ , $\frac{1}{2}$ , $\frac$	$\frac{1}{2} \text{ out of } \frac{2}{4}$ $\frac{1}{2} \text{ out of } \frac{3}{4}$ $\frac{1}{4}$ $\frac{1}{4} \text{ out of } \frac{10}{5}$ $\frac{1}{7}, \frac{3}{8}, \frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{$	<ul> <li>15</li> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> </ul>	<sup>1</sup> / <sub>10</sub> , <sup>1</sup> / <sub>6</sub> , <sup>c</sup> <sup>6</sup> / <sub>3</sub> , <sup>1</sup> / <sub>5</sub> , <sup>2</sup> / <sub>5</sub> <sup>6</sup> / <sub>3</sub> , <sup>7</sup> / <sub>5</sub> <sup>1</sup> / <sub>7</sub> , <sup>7</sup> / <sub>7</sub> <sup>1</sup> / <sub>7</sub> , <sup>1</sup> / <sub>7</sub> , <sup>1</sup> <sup>1</sup> / <sub>7</sub> , <sup>1</sup> <sup>1</sup> / <sub>8</sub> <sup>1</sup> / <sub>8</sub> <sup>1</sup> / <sub>8</sub> <sup>1</sup> / <sub>8</sub>	$ \begin{array}{c} 1/_{9,} & 1/_{8,} \\ 1/_{5,} & 1/_{4,} & 1\\ 1/_{5,} & 1/_{4,} & 1\\ 1/_{5,} & 1/_{4,} & 1\\ 1/_{5,} & 1/_{4,} & 1\\ 1/_{5,} & 1/_{4,} & 1\\ 7/_{3,} & 8/_{3,} & 5\\ \frac{3}/_{5,} & 9/_{5,} \\ \frac{3}/_{5,} & 9/_{5,} \\ \frac{12}/_{5,} & 13\\ \frac{3}/_{7,} & 4/_{7} \\ \frac{3}/_{7,} & 9/_{7,} \\ \frac{2}/_{7,} & 13/_{7,} \\ (9) \\ (10) \\ (11) \end{array} $	1/7, 1/3 × , <sup>5</sup> /3, <b>7</b> /3 , <sup>5</sup> /5, 10/5, <b>7</b> 5 , <sup>10</sup> /7, 14/7 25 27 30	16 (1) (2) (3) (4) (5) (6) (7) (8) (7) (8) (7) (8) (7) (10) (21) (22) (23) (24) (25) (26)	a = 26 b = 26 c = 13 d = 29 e = 25 f = 102 g = 87 h = 74 i = 47 j = 102	(11) (12) (13) (14) (15) (16) (17) (18) (19) (20) \$38.00 \$52.00 \$14.50 \$12.00 \$12.00 \$9.00 4 chain	k = 6 m = 9 n = 4 p = 3 q=1100 r = 8 s = 5 t = 475 u = 5 v = 8
13 (1) (2) (3) (4) (5) (6) (7) (8) (7) (8) (9) (10) (10) (11) (12) (13) (14) (15) (16) (17) (18)	= 10 $(100 ÷$ $= 20$ $(60 ÷ 0)$ $= 10$ $(70 ÷ -)$ $= 10$ $(80 ÷ -)$ $= 10$ $(600 ÷ -)$ $= 200$ $(600 ÷ -)$ $= 200$ $(1400 • -)$ $= 200$ $= 200$ $(1400 • -)$ $= 200$ $(1400 • -)$ $= 200$ $(1400 • -)$ $= 200$ $(1400 • -)$ $= 200$ $(1400 • -)$ $= 200$ $= 200$ $(1400 • -)$ $= 200$	4) + (24) + (24) + (24) + (24) + (25) + (2	$(+ \div 4)$ 16 5 ÷ 5) 25 2 ÷ 6) 17 2 ÷ 6) 17 2 ÷ 7) 16 ) ÷ 8) 15 2 ÷ 2) 296 2 ÷ 6) 98 6 ÷ 8) 198 2 ÷ 4) 208 2 ÷ 4) 208 2 ÷ 4) 208 2 ÷ 4) 203 3 = 12 3 ÷ 8 6 ÷ 16 ÷ 4 = 16 138 190 123	14 (1) (3) (5) (7) (9) (11) (13) (14) (14) (14) (14) (14) (14) (15) (16) (17) (16) (17) (18) (19) (20) (21) (22)	one half $1/_3$ one quarter $1/_5$ one sixth one sixth one tenth $4/_5$ , $3/_6$ $4/_9$ , $4/_9$ , 9 (as 9 (as 9 (as 9 (as 9 (as 9 (as 9 (as 16 (as 1 8))))))))))))))))))))))))))))))))))))	(2) (4) (6) (8) (10) (12) $\frac{1}{2}$ $5/_{10}$ or $\frac{1}{2}$ , $\frac{5}{2}$ $5/_{10}$ or $\frac{5}{7}$ , $\frac{5}{7}$ , $\frac{5}{7}$ $3 \times \frac{9}{2} =$ $5 \times \frac{9}{2} =$ $7 \times \frac{8}{5} =$ $54 \div 6$ $72 \div 8$ $60 \div 1$ x 5 = 4 x 6 = \$	$\frac{1}{2} \text{ out of } \frac{2}{4}$ $\frac{1}{4} \text{ out of } \frac{3}{4}$ $\frac{1}{4} \text{ out of } \frac{1}{4}$ $\frac{1}$	<ul> <li>15</li> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(12)</li> </ul>	<sup>1</sup> / <sub>10</sub> , <sup>1</sup> / <sub>6</sub> , <sup>1</sup> / <sub>6</sub> , <sup>1</sup> / <sub>5</sub> , <sup>2</sup> / <sub>5</sub> <sup>6</sup> / <sub>5</sub> , <sup>7</sup> / <sub>5</sub> <sup>1</sup> / <sub>7</sub> , <sup>2</sup> / <sub>7</sub> <sup>6</sup> / <sub>7</sub> , <sup>7</sup> / <sub>7</sub> <sup>11</sup> / <sub>7</sub> , <sup>1</sup> 18 18 24 3000 ÷ 3 =	1/9, 1/8, 1/5, 1/4, 1 1/5, 1/4, 1 1/5, 1/4, 1 1/5, 1/4, 1 1/5, 1/4, 1 1/5, 1/4, 1 3/3, 8/3, 5 3/5, 4/5, 12/5, 13/6, 12/5, 13/7, 12/5, 13/7, 12/5, 13/7, 12/7, 13/7, 12/7, 13/7, 12/7, 13/7, 1000 x 2	1/7, 1/3 x 5/3, 5/3, 7/3 5/5, 10/5, 15, 10/7, 14/7 25 27 30 = 2000m	16 (1) (2) (3) (4) (5) (6) (7) (8) (7) (8) (7) (8) (7) (10) (21) (22) (23) (24) (25) (26)	a = 26 b = 26 c = 13 d = 29 e = 25 f = 102 g = 87 h = 74 i = 47 j = 102	(11) (12) (13) (14) (15) (16) (17) (18) (19) (20) \$38.00 \$52.00 \$14.50 \$12.00 \$12.00 \$9.00 4 chain	k = 6 m = 9 n = 4 p = 3 q=1100 r = 8 s = 5 t = 475 u = 5 v = 8
13 (1) (2) (3) (4) (5) (6) (7) (8) (7) (8) (9) (10) (11) (12) (11) (12) (13) (14) (15) (16) (17)	= 10 $(100 ÷$ $= 20$ $(60 ÷ 0)$ $= 10$ $(70 ÷)$ $= 10$ $(80 ÷ 1)$ $= 10$ $(600 ÷$ $= 300$ $(600 ÷$ $= 200$ $(1600 ÷$ $= 200$ $(1400 ÷$	$\begin{array}{c} 4) + (24) \\ 0 + 6 = \\ 5) + (24) \\ 0 + 5 = \\ 6) + (42) \\ 0 + 7 = \\ 7) + (42) \\ 0 + 7 = \\ 8) + (40) \\ 0 + 5 = \\ 8) + (40) \\ 0 + 5 = \\ 8) + (40) \\ 0 - 4 = \\ 2) + (32) \\ 0 - 4 = \\ 8) + (40) \\ 0 - 4 = \\ 2) + (32) \\ 0 - 4 = \\ 6) - (12) \\ 0 - 4 = \\ 2) + (32) \\ 0 - 2) + (32) \\ 0 - 2) + (32) \\ 0 - 2) + (32) \\ 0 - 2) + (32) \\ 0 - 2) + (32) \\ 0 - 2) + (32) \\ 0 - 2) + (32) \\ 0 - 2) + (32) \\ 0 - 2) + (32) \\ 0 - 2) + (32) \\ 0 - 2) + (32) \\ 0 - 2) + (32) \\ 0 - 2) + (32) \\ 0 - 2) + (32) \\ 0 - 2) + (32) \\ 0 - 2) + (32) \\ 0 - 2) + (32) \\ 0 - 2) + (32) \\ 0$	$(+ \div 4)$ 16 $(5 \div 5)$ $(2 \div 6)$ $(2 \div 7)$ 16 $(2 \div 7)$ 296 $(2 \div 6)$ 98 $(6 \div 8)$ 198 $(2 \div 7)$ 203 $(3 \div 2)$ $(2 \div 3)$ 12 $(3 \div 8)$ 12 $(3 \div 8)$ 13 $(3 \div 2)$ 203 $(3 \div 2)$ $(3 \div 2)$ $(3 \div 3)$ 12 $(3 \div 3)$ $(3 \div 2)$ $(3 \div 3)$ 12 $(3 \div 3)$ $(3 \div 3)$ 12 $(3 \div 3)$ 12 $(3 \div 3)$ 12 $(3 \div 3)$ 12 $(3 \div 3)$ 12 $(3 \div 3)$ 13 $(3 \div 3)$ 14 $(3 \div 3)$ 15 $(3 \div 3)$ 16 $(3 \div 3)$ 17 $(3 \div 3)$ 17 $(3 \div 3)$ 19 $(3 \div 4)$ 10 $(3 \div 3)$ 10 $(3 \div 3)$ 10 (3	14 (1) (3) (5) (7) (9) (11) (13) (14) (14) (14) (14) (15) (16) (17) (18) (17) (18) (19) (20) (21)	one half $1/_3$ one quarter $1/_5$ one sixth one sixth one tenth $4/_5$ , $3/_6$ $4/_9$ , $4/_9$ , 9 (as 9 (as 9 (as 9 (as 9 (as 9 (as 9 (as 16 (as 1 8))))))))))))))))))))))))))))))))))))	(2) (4) (6) (8) (10) (12) $\frac{1}{2}$ , $5^{-1}$ $5^{-1}$ ,	$\frac{1}{2} \text{ out of } \frac{2}{4}$ $\frac{1}{4} \text{ out of } \frac{3}{4}$ $\frac{1}{4} \text{ out of } \frac{1}{4}$ $\frac{1}$	<ul> <li>15</li> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(4)</li> <li>(5)</li> <li>(6)</li> <li>(7)</li> <li>(8)</li> <li>(12)</li> </ul>	$1/_{10}, 1/_{6}, 1/_{6}, 1/_{6}, 1/_{6}, 1/_{6}, 1/_{6}, 1/_{6}, 1/_{6}, 1/_{6}, 1/_{6}, 1/_{6}, 1/_{6}, 1/_{6}, 1/_{6}, 1/_{7}, 1/_{5}, 1/_{7}, 1/_$	1/9, 1/8, 1/5, 1/4, 1 1/5, 1/4, 1 1/5, 1/4, 1 1/5, 1/4, 1 1/5, 1/4, 1 1/5, 1/4, 1 3/3, 8/3, 5 3/5, 4/5, 12/5, 13/6, 12/5, 13/7, 12/5, 13/7, 12/5, 13/7, 12/7, 13/7, 12/7, 13/7, 12/7, 13/7, 1000 x 2	1/7, 1/3 x 5/3, 5/3, 7/3 5/5, 10/5, 10/5, 10/7, 14/7 25 27 30 = 2000m minutes	16 (1) (2) (3) (4) (5) (6) (7) (8) (7) (8) (7) (8) (7) (10) (21) (22) (23) (24) (25) (26)	a = 26 b = 26 c = 13 d = 29 e = 25 f = 102 g = 87 h = 74 i = 47 j = 102	(11) (12) (13) (14) (15) (16) (17) (18) (19) (20) \$38.00 \$52.00 \$14.50 \$12.00 \$12.00 \$9.00 4 chain	k = 6 m = 9 n = 4 p = 3 q=1100 r = 8 s = 5 t = 475 u = 5 v = 8

17		18				11	19				1	20			
(1)	<u>27</u> , <u>33</u> , <u>39</u> Begin with 3, then add 6 to each new number						<ul> <li>Possible answers:</li> <li>- a piece of fruit,</li> <li>- a small plastic toy,</li> <li>- a piece of bread,</li> </ul>					(1)	Possible answers: - water in a kitchen sink, - paint in a tin, - milk in a carton,		
(2)	<u>30</u> , <u>37</u> , <u>44</u> 2, add 7	<ul><li>lengths of material.</li><li>distance between two cities,</li></ul>						<ul> <li>empty coffee cup,</li> <li>packet of biscuits</li> </ul>				<ul> <li>petrol in a cars tank,</li> <li>water in an aquarium</li> </ul>			
(3)	… <u>62</u> , <u>58</u> , <u>54</u> … 78, subtract 4	<ul><li>distance between two countries</li><li>(3) length of a pencil, size of a text book</li></ul>					(2) (3)	a car, a truck an animal, a bag of potatoes				<ul> <li>(2) water in a lake, water in ocean</li> <li>(3) medicine on a spoon, coffe</li> </ul>			
(4)	… <u>45,</u> <u>36</u> , <u>27</u> … 81, subtract 9	(4)	width of a p				(4)		ner, a too			(3) (4)	7000	n a spoor a cup (6)	n, coffee in 9
(5)	1 2 3 4 (5) 6 7 8 (9) 10 11 12 (13) 14 15 16 (17) 18 19 20	(5)	2000 7500	(7)	6 4.2		(5)	7000	(7)	9		(5)	9400	(7)	7.3
	2) 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	(6)	600	(8)	4.2 9		(6)	5400	(8)	4.7		(8)	6	(10)	9000
(6)	(4)       42       43       44       (45)       46       47       48       (49)       50         5, 9, 13, 17, 21, 25,	(9) (10)	570	(11) (12)	9 8.4		(9) (10)	8 7.2	(11) (12)	3000 6100		(9) (12)	5.4 2.5L	(11)	7600
(7)	29, 33, 37, 41, 45, 49 12	(13)	1	(15)	50		(13)	4	(15)	6000		(13)	1200mL		
(8)	<u>48</u> , <u>96, 192</u> 3, multiply by 2	(14)	4.5	(16)	69		<mark>(</mark> 14)	7.6	(16)	2100		(14) (15)	7 + 4300 + 2	2.5 = 9 100 =	-
(9)	<u>243,</u> <u>729</u> , <u>2187</u>	(17) (18)	3 9.1	(19) (20)	6000 2700		(17)		4.5 = 8	Ŭ.		(16)		3.7 = 5	
(10)	3, multiply by 3 <u>80</u> , <u>160</u> , <u>320</u>	(21)	4000 +	35 <mark>00</mark> =	7500m		(18)		2.4 = 4	4.4kg		(17) (18)	9200 - 7 8 6 -	800 = 5.2 =	
	5, multiply by 2	(22) (23)	2.3 + 680 - 4	2.5 = 2			(20) (21)		7.8 = 4.7 = 2				7600 - 5		
	<u>60</u> , <u>30</u> , <u>15</u> 480, divide by 2	(24)	730 -	620 = 1	110cm		(22)	9600 - 7	400 =	2200mg		(20)		+ 400 1601.5	
(12)	\$1.20, \$2.40, \$3.60, \$4.80, \$6.00	(25) (26)	5.4 + 8 960 - 7	8.2 = 1 745 = 2			(23) (24)	800 + 68 ( 0.83 )	(6 = 4			(21)		x 6 = 4	
(13)	6	(27)	130 + 54	4 + 25 =	= 209cm		(25)	3200	÷ 8 =	400g		(22)	4.9	÷ 7 = (	).7L
<b>21</b> (1)	centimetres	<b>22</b> (1)		+ 12 +	. 0		23	Please Note	due to estin	mating some		24	16		
(2)	G = 0.6cm H = 1.3cm		-	= 30cm			(1)		two.	vary by one or units		(1) (2)	16		
	I = 3.5cm J = 4.1cm	(2)		15 <del>+</del> 6 = 42m			(2)		quare			(3)	9		
	K = 2.2 cm L = 5.8 cm	(3)		5 + 5 = <mark>38</mark> mn	+ 9 + 5 n		(3)		n shap			(4) (5)	3 27		
(3)		(4)	11 +	7 + 7 + 7 = 5	+ 11		(4)	Area =	4 row			(6)	100		
(4)	D B E A C F 44mm is the same as 4.4cm	(5)		9m	ocm		(5)	= 4	4 sq u 9m²	nits		(7) to	No ans	wers s	upplied
(5)	Line AB = 43mm Line CD = 32mm	(6) (7)		28m 210m			(6)		12m <sup>2</sup>			(11)			
	Line EF = 50mm Line GH = 32mm	(8)		28m		5	(7)		12m <sup>2</sup> 20m <sup>2</sup>			(12) (13)		) blocł 2 blocł	
	All the above answers could be ± 1mm						(8) (9)	base x ł		= area <sup>2</sup>		(10)		2 01001	.0
(6) (7)	Draw a 67mm line kilograms						(10)		15cm <sup>2</sup>						
(8) (9)	106kgs						(11)		20m <sup>2</sup>						
							(12) (13)		12m <sup>2</sup> 42cm <sup>2</sup>	:					
(10) (11) (12)	litres = 34L 50L 40 = 20 = 20 = 20 = 20 = 20 = 20 = 20 =														

