

Written in
NZ for NZ

Help Me at HOME Series



Number Knowledge Worksheets

A Teacher's resource supplied as PHOTOCOPY MASTERS

Book 7a



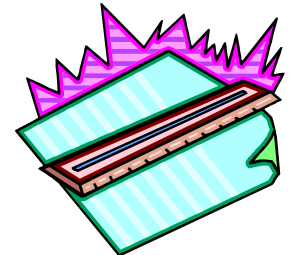
This resource contains
**40 NUMBER KNOWLEDGE
WORKSHEETS**



and supports the
**Numeracy Professional Development
Project Stages 6 to 8**

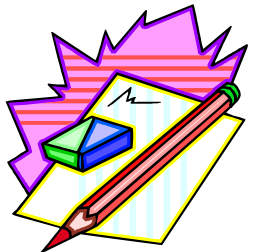


This resource is to be used in conjunction
with **Book 7b** which covers **Level 4** of the
achievement objectives as outlined in the



**Mathematics in the New Zealand
Curriculum** for the strands ...

**Number & Algebra, Measurement &
Geometry and Statistics.**



Author: A. W. Stark



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Mathematics Student Workbook

Book 7a

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AH7a

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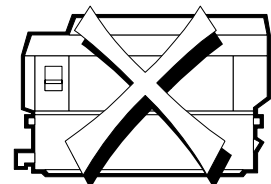
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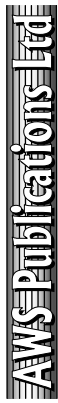
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Note from the author:

About this resource ...

Help Me at Home Number Knowledge Worksheets - Book 7a (Code: AH7a)

... is one of a series of **TWO sets** of 8 resources and has been written to support the **Numeracy Professional Development Project** currently being implemented within many New Zealand schools.

Resource Book 7a is to be used in conjunction with a second resource, Book 7b.

Help Me at Home Curriculum Strand Worksheets - Book 7b (Code: AH7b)

Book 7b 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.

Background Information:

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

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

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

The **strategy stages** are listed in this table.

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

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

	Strategy Stages
0	Emergent
1	One-to-one Counting
2	Counting from One on Materials
3	Counting from One by Imaging
4	Advanced Counting (Counting On)
5	Early Additive Part-Whole
6	Advanced Additive Part-Whole
7	Advanced Multiplicative Part-Whole
8	Advanced Proportional Part-Whole

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

There are **2 sets** of 8 resources in this series.

The table opposite shows the suggested Year Group each book can be used at, but this is only a suggestion.

Example: 1 - 2 - 3 means it is likely to be used at Year 2, the bold underlined number.

Book	Resource Code	Suggested Year Group (underlined)	Strategy Stages covered	Curriculum Level
1a / 1b	AH1a & AH1b	1 - <u>2</u> - 3	1 to 3	1
2a / 2b	AH2a & AH2b	2 - <u>3</u> - 4	4	1 / 2
3a / 3b	AH3a & AH3b	3 - <u>4</u> - 5	4 & 5	2
4a / 4b	AH4a & AH4b	4 - <u>5</u> - 6	5 & 6	2 / 3
5a / 5b	AH5a & AH5b	5 - <u>6</u> - 7	6 & 7	3
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 7a & Book 7b



Book AH7a

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 7b**).
- **Book 7a** covers the **Strategy Stages** 6 to 8.

Note to Teachers:

- The aim of these TWO resources (**AH7a & AH7b**) 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 7a:

- **Photocopy** weekly and sequentially in order, a **Number Knowledge** worksheet from **Book 7a**. 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 7b:

- **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.

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

Book AH7b

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 7a**).
- The worksheet selected per week relates to the topic being covered at school or as revision.
- **Book 7b** covers Level 4 of the **Curriculum**.

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 7a (AH7a) - Number Knowledge Worksheets

Number Knowledge Worksheet	Term & Week Enter details below	Curriculum Strand Worksheet Enter the worksheet number issued each week	Number Knowledge Worksheet	Term & Week Enter details below	Curriculum Strand Worksheet Enter the worksheet number issued each week
1	Term: Week:		21	Term: Week:	
2	Term: Week:		22	Term: Week:	
3	Term: Week:		23	Term: Week:	
4	Term: Week:		24	Term: Week:	
5	Term: Week:		25	Term: Week:	
6	Term: Week:		26	Term: Week:	
7	Term: Week:		27	Term: Week:	
8	Term: Week:		28	Term: Week:	
9	Term: Week:		29	Term: Week:	
10	Term: Week:		30	Term: Week:	
11	Term: Week:		31	Term: Week:	
12	Term: Week:		32	Term: Week:	
13	Term: Week:		33	Term: Week:	
14	Term: Week:		34	Term: Week:	
15	Term: Week:		35	Term: Week:	
16	Term: Week:		36	Term: Week:	
17	Term: Week:		37	Term: Week:	
18	Term: Week:		38	Term: Week:	
19	Term: Week:		39	Term: Week:	
20	Term: Week:		40	Term: Week:	

Book 7b (AH7b) - Curriculum Strand Worksheets

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

1	Revision	<i>Tick</i>	21	Geometry words & naming angles	<i>Tick</i>
2	Addition & subtraction strategies		22	Reading scales, drawing lines & angles	
3	More addition & subtraction strategies		23	Angle rules	
4	Addition & subtraction of decimals		24	Perimeter	
5	Multiplication strategies		25	Area - Squares and rectangles	
6	Division strategies		26	Area - Triangles & Parallelograms	
7	Multiplication & division of decimals		27	Volume	
8	Special numbers		28	Time, tables & scale diagrams	
9	Order of Operations		29	2-D and 3-D shapes / Nets	
10	Equivalent fractions / simplifying		30	Grid references & co-ordinates	
11	More fractions		31	Compass points compass bearings	
12	Fractions / decimals / percentages		32	Rotation & reflection	
13	Multiplying & dividing by powers of 10		33	Translation & enlargements	
14	Negative numbers		34	Column graphs, pictograms & dot plots	
15	Solving equations		35	Stem and leaf graphs & time series graphs	
16	Using formulae		36	Frequency tables, histograms & % bar graphs	
17	Number patterns or sequences		37	Pie Graphs	
18	Measuring units - length		38	Finding 'averages' and the range	
19	Measuring units weight (mass)		39	Interpreting data / Creating a report	
20	Measuring units volume (capacity)		40	Outcomes / Probability	

Number Knowledge Worksheet Section

The following activities are covered in worksheets 1 to 10:

- **Read and write** numbers while **skip counting** in **3's, 4's, 5's, 6's, 7's, 8's** and **9's** in a **forward** or **backward** sequence.
Example: 7, 14, 21, _____, 35, _____, 49, _____, 63, _____, 77, 84, _____, 98, _____ etc.
 - **Skip counting** in **3's, 4's, 5's, 6's, 7's, 8's** and **9's** **write** the number that comes **after, before** or **between** the given numbers.
Example: after 18, _____, before _____, 36 between 54, _____, 66
 - **THIRTY activities involving ...**
Ordering whole numbers or decimals, adding numbers in a matrix, exploring place value in whole numbers and decimals, rounding whole numbers or decimals to the nearest 10, 100, 1000 or 10th and finding estimated answers, finding a fraction of a group of shapes and of a whole number, multiplying and dividing large numbers and decimals, converting between commonly used fractions, decimals and percentages, finding a percentage of a whole number, finding the square or square root of a number, adding and subtracting integers and simple word problems.
 - Using 3 digit numbers, revise the number **combinations that add up to and include 18**, including subtraction combinations, by using appropriate **number strategies**.
Example: $244 + 142 = \underline{\hspace{2cm}}$, $425 + \underline{\hspace{2cm}} = 387$, $495 - 276 = \underline{\hspace{2cm}}$, $935 - \underline{\hspace{2cm}} = 493$
 - Revise the **3x, 4x, 5x, 6x, 7x, 8x** and **9x multiplication / division facts**.
Example: $9 \times 2 = \underline{\hspace{2cm}}$, $7 \times 3 = \underline{\hspace{2cm}}$, $3 \times \underline{\hspace{2cm}} = 21$ and $35 \div 5 = \underline{\hspace{2cm}}$
-

The following activities are covered in worksheets 11 to 20:

- **SEVENTY-TWO activities involving ...**
 - skip counting in multiples, stating numbers that come before after or between given numbers;
 - ordering whole numbers or decimals;
 - writing decimals as number words;
 - adding numbers in a matrix;
 - exploring place value using money, whole numbers and decimals,
 - rounding numbers to the nearest 10, 100, 1000, 10th or 100th and finding estimated answers;
 - finding a fraction of a group of shapes, a whole number or a decimal;
 - converting between improper fractions and mixed numbers;
 - multiplying and dividing large numbers and decimals;
 - order of operations, BEDMAS;
 - converting between commonly used fractions, decimals and percentages;
 - finding a percentage of a whole number;
 - finding the square or square root of a number;
 - adding and subtracting integers;
 - simple word problems.
 - Using 3 digit numbers, revise the number **combinations that add up to and include 18**, including subtraction combinations, by using appropriate **number strategies**.
Example: $562 + .86 = \underline{\hspace{2cm}}$, $389 + \underline{\hspace{2cm}} = 723$, $562 - 296 = \underline{\hspace{2cm}}$, $915 - \underline{\hspace{2cm}} = 373$
 - Revise the **4x, 6x, 7x, 8x** and **9x multiplication / division facts**.
Example: $9 \times 8 = \underline{\hspace{2cm}}$, $7 \times 6 = \underline{\hspace{2cm}}$, $8 \times \underline{\hspace{2cm}} = 56$ and $54 \div 9 = \underline{\hspace{2cm}}$
-

The following activities are covered in worksheets 21 to 30:

- **SEVENTY-TWO activities involving ...**
 - skip counting in multiples, stating numbers that come before after or between given numbers;
 - writing decimals as number words and number words as decimals;
 - writing decimals as number words;
 - adding numbers in a matrix;
 - exploring place value using money, whole numbers and decimals,
 - rounding numbers to the nearest 10, 100, 1000, 10th or 100th and finding estimated answers;
 - finding a fraction of a group of shapes, a whole number or a decimal;
 - creating equivalent fractions;
 - converting between improper fractions and mixed numbers;
 - multiplying large numbers or decimals and multiplying by 10, 100 or 1000;
 - dividing large numbers or decimals and dividing by 10, 100 or 1000;
 - order of operations, BEDMAS;
 - converting between commonly used fractions, decimals and percentages;
 - finding a percentage of a whole number or decimal;
 - finding the square or square root of a number;
 - adding and subtracting integers;
 - solving equations;
 - simple word problems.
- Using 3 digit numbers, revise the number **combinations that add up to and include 18**, including subtraction combinations, by using appropriate **number strategies**.
Example: $562 + .86 = \underline{\quad}$, $389 + \underline{\quad} = 723$, $562 - 296 = \underline{\quad}$, $915 - \underline{\quad} = 373$
- Revise the **4x, 6x, 7x, 8x** and **9x** multiplication / division facts.
Example: $9 \times 8 = \underline{\quad}$, $7 \times 6 = \underline{\quad}$, $8 \times \underline{\quad} = 56$ and $54 \div 9 = \underline{\quad}$

The following activities are covered in worksheets 31 to 40:

- **SEVENTY-TWO activities involving ...**
 - skip counting in multiples, stating numbers that come before after or between given numbers;
 - writing decimals as number words and number words as decimals;
 - writing decimals as number words;
 - adding numbers in a matrix;
 - exploring place value using money, whole numbers and decimals,
 - rounding numbers to the nearest 10, 100, 1000, 10th or 100th and finding estimated answers;
 - finding a fraction of a group of shapes, a whole number or a decimal;
 - creating equivalent fractions;
 - converting between improper fractions and mixed numbers;
 - multiplying large numbers or decimals and multiplying by 10, 100 or 1000;
 - dividing large numbers or decimals and dividing by 10, 100 or 1000;
 - order of operations, BEDMAS;
 - converting between commonly used fractions, decimals and percentages;
 - finding a percentage of a whole number or decimal;
 - finding the square or square root of a number;
 - adding and subtracting integers;
 - solving equations;
 - simple word problems.
- Using 3 digit numbers, revise the number **combinations that add up to and include 18**, including subtraction combinations, by using appropriate **number strategies**.
Example: $574 + 142 = \underline{\quad}$, $355 + \underline{\quad} = 890$, $968 - 531 = \underline{\quad}$, $974 - \underline{\quad} = 695$
- Revise the **4x, 6x, 7x, 8x** and **9x** multiplication / division facts.
Example: $8 \times 5 = \underline{\quad}$, $7 \times \underline{\quad} = 56$, $\underline{\quad} \times 9 = 45$, $24 \div 4 = \underline{\quad}$, $48 \div \underline{\quad} = 6$, $\underline{\quad} \div 7 = 6$

- (1) Write in the missing numbers as you skip count in 3's.



3, _____, _____, _____, _____, 18, _____, _____,
27, _____, _____, _____, 39, _____, 45, 48, 51

- (2) Skip counting in 5's, write the number that comes after ...

65, _____ 40, _____ 105, _____

- (3) Write these numbers in order from largest to smallest.



838
2.93
0.429
27.13
0.045

_____, _____, _____, _____, _____

- (4) Multiplying large numbers.

589	327	450
x 5	x 8	x 9
_____	_____	_____

- (5) Round these numbers to the nearest 10.

728 = _____ 587 = _____

243 = _____ 675 = _____

Add and subtract these numbers.

(6) $463 + 115 =$ _____ (11) $578 - 463 =$ _____

(7) $479 + 209 =$ _____ (12) $688 - 209 =$ _____

(8) $175 + 392 =$ _____ (13) $567 - 175 =$ _____

(9) _____ + 464 = 713 (14) 713 - _____ = 249

(10) $358 +$ _____ = 777 (15) _____ - 564 = 158

Multiplying and dividing in 3's, 5's, 7's, 8's & 9's.

(16) $3 \times 10 =$ _____ (21) $21 \div 3 =$ _____

(17) $4 \times 5 =$ _____ (22) $40 \div 5 =$ _____

(18) $9 \times 6 =$ _____ (23) $27 \div 9 =$ _____

(19) $7 \times$ _____ = 7 (24) $35 \div$ _____ = 7

(20) _____ $\times 8 = 72$ (25) _____ $\div 8 = 10$

Working Space

- (1) Write in the missing numbers as you skip count backwards in 5's.



75, _____, _____, _____, _____, 50, _____, 40,
_____, _____, _____, _____, 15, 10, _____

- (2) Skip counting in 7's, write the number that comes before ...

_____, 56 _____, 35 _____, 91

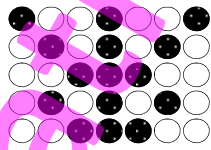
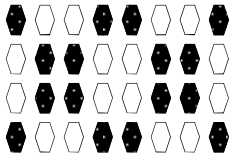
- (3) What is the place value of the BOLD digit and what does it mean?

Example: In **4**52 the place value is 10's and it means 50.

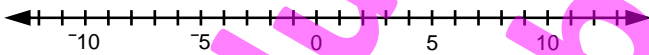
532 = _____ = _____ **7**662 = _____ = _____

9**0**2 = _____ = _____ 1**9**20 = _____ = _____

- (4) What fraction of each group of shapes is shaded?



- (5) Add these positive and negative numbers.



$-9 + 7 =$ _____ $-14 + 9 =$ _____

$10 + -8 =$ _____ $5 + -8 =$ _____

Add and subtract these numbers.

(6) $215 + 363 =$ _____ (11) $478 - 136 =$ _____

(7) $219 + 715 =$ _____ (12) $845 - 527 =$ _____

(8) $193 + 664 =$ _____ (13) $725 - 270 =$ _____

(9) _____ + 596 = 883 (14) $931 -$ _____ = 468

(10) $398 +$ _____ = 605 (15) _____ - 596 = 287

Multiplying and dividing in 3's, 5's, 7's, 8's & 9's.

(16) $3 \times 5 =$ _____ (21) $3 \div 3 =$ _____

(17) $10 \times 5 =$ _____ (22) $45 \div 5 =$ _____

(18) $9 \times 4 =$ _____ (23) $18 \div 9 =$ _____

(19) $7 \times$ _____ = 42 (24) $49 \div$ _____ = 7

(20) _____ $\times 8 = 8$ (25) _____ $\div 8 = 8$

Working Space

- (1) Write in the missing numbers as you skip count in 7's.



7, _____, _____, 28, _____, _____, _____, 56,
 _____, 70, _____, _____, 91, _____, _____

- (2) Skip counting in 8's, write the number that is between ...

56 _____ 72, 24 _____ 40, 88 _____ 104

- (3) Find each fraction of these whole numbers.

$$\frac{1}{6} \text{ of } 240 = \underline{\hspace{2cm}} \quad \frac{2}{3} \text{ of } 360 = \underline{\hspace{2cm}}$$

$$\frac{1}{7} \text{ of } 350 = \underline{\hspace{2cm}} \quad \frac{3}{5} \text{ of } 500 = \underline{\hspace{2cm}}$$

- (4) Add all the numbers in this matrix.

6900	9	650	
30	250	20	
820	470	4100	
			Total

- (5) Dividing large numbers.

Example: $95 \div 5 = (50 \div 5) + (45 \div 5) = 10 + 9 = 19$

$$162 \div 9 = (\underline{\hspace{1cm}} \div \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \div \underline{\hspace{1cm}})$$

$$= \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

Add and subtract these numbers.

(6) $684 + 302 = \underline{\hspace{2cm}}$ (11) $578 - 215 = \underline{\hspace{2cm}}$

(7) $419 + 358 = \underline{\hspace{2cm}}$ (12) $934 - 715 = \underline{\hspace{2cm}}$

(8) $396 + 241 = \underline{\hspace{2cm}}$ (13) $857 - 193 = \underline{\hspace{2cm}}$

(9) $\underline{\hspace{1cm}} + 335 = 633$ (14) $883 - \underline{\hspace{1cm}} = 287$

(10) $715 + \underline{\hspace{1cm}} = 934$ (15) $\underline{\hspace{1cm}} - 464 = 249$

Multiplying and dividing in 3's, 5's, 7's, 8's & 9's.

(16) $3 \times 6 = \underline{\hspace{1cm}}$ (21) $27 \div 3 = \underline{\hspace{1cm}}$

(17) $1 \times 5 = \underline{\hspace{1cm}}$ (22) $10 \div 5 = \underline{\hspace{1cm}}$

(18) $9 \times 9 = \underline{\hspace{1cm}}$ (23) $63 \div 9 = \underline{\hspace{1cm}}$

(19) $7 \times \underline{\hspace{1cm}} = 14$ (24) $56 \div \underline{\hspace{1cm}} = 7$

(20) $\underline{\hspace{1cm}} \times 8 = 56$ (25) $\underline{\hspace{1cm}} \div 8 = 3$

Working Space

- (1) Write in the missing numbers as you skip count in 8's.



_____, _____, 24, _____, _____, _____, _____, 64,
72, _____, _____, _____, 104, _____, 120

- (2) Skip counting in 9's, write the number that comes after ...

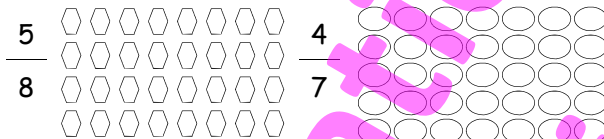
81, _____ 45, _____ 108, _____

- (3) Round these numbers to the nearest 1000.

8545 = _____ 3499 = _____

1750 = _____ 26700 = _____

- (4) Shade in part of each group of shapes to show you understand these fractions.



- (5) A running race is two laps.
If lap 1 is 1840m long and lap 2 is 1260m, how far is the race?



_____ + _____ = _____

Add and subtract these numbers.

(6) $136 + 342 =$ _____ (11) $986 - 684 =$ _____

(7) $318 + 527 =$ _____ (12) $777 - 358 =$ _____

(8) $270 + 455 =$ _____ (13) $637 - 396 =$ _____

(9) _____ + 463 = 931 (14) $633 -$ _____ = 298

(10) $209 +$ _____ = 688 (15) _____ - 463 = 468

Multiplying and dividing in 3's, 5's, 7's, 8's & 9's.

(16) $3 \times 3 =$ _____ (21) $24 \div 3 =$ _____

(17) $5 \times 5 =$ _____ (22) $15 \div 5 =$ _____

(18) $9 \times 10 =$ _____ (23) $45 \div 9 =$ _____

(19) $7 \times$ _____ = 28 (24) $70 \div$ _____ = 7

(20) _____ $\times 8 = 48$ (25) _____ $\div 8 = 4$

Working Space

- (1) Write in the missing numbers as you skip count in 9's.



_____, 18, _____, _____, _____, _____, 63, _____
81, _____, _____, _____, _____, _____, 135

- (2) Skip counting in 3's, write the number that comes before ...

_____, 18 _____, 36 _____, 60

- (3) What is the place value of the BOLD digit and what does it mean?

Example: In 4.52 the place value is $\frac{1}{10}$'s and it means $\frac{5}{10}$.

9.42 = _____ = _____ 6.2**8** = _____ = _____

1.7**5** = _____ = _____ 4.3**9** = _____ = _____

- (4) Find the percentage of these numbers.

10% of 950 = _____ 25% of 720 = _____

50% of 370 = _____ 33 $\frac{1}{3}$ % of 270 = _____

- (5) Round these numbers to the nearest 100.

292 = _____ 1318 = _____

764 = _____ 1850 = _____

Add and subtract these numbers.

(6) $482 + 312 =$ _____ (11) $794 - 482 =$ _____

(7) $207 + 398 =$ _____ (12) $605 - 398 =$ _____

(8) $382 + 186 =$ _____ (13) $568 - 382 =$ _____

(9) _____ + 564 = 722 (14) $722 -$ _____ = 158

(10) $527 +$ _____ = 845 (15) _____ - 335 = 298

Multiplying and dividing in 3's, 5's, 7's, 8's & 9's.

(16) $3 \times 4 =$ _____ (21) $6 \div 3 =$ _____

(17) $6 \times 5 =$ _____ (22) $35 \div 5 =$ _____

(18) $9 \times 1 =$ _____ (23) $72 \div 9 =$ _____

(19) $7 \times$ _____ = 63 (24) $21 \div$ _____ = 7

(20) _____ $\times 8 = 16$ (25) _____ $\div 8 = 5$

Working Space

- (1) Write in the missing numbers as you skip count in 4's.



_____, _____, 12, _____, _____, _____, 28, 32,
_____, _____, 44, _____, _____, 56, 60

- (2) Skip counting in 6's, write the number that is between ...

48 _____ 60, 90 _____ 102, 24 _____ 36

- (3) Fill in the missing fractions, decimals or percentages.



fraction	decimal	percentage
	↔	↔ 25%
$\frac{1}{5}$	↔	↔
	↔ 0.75	↔

- (4) Find each fraction of these decimals.

$$\frac{1}{4} \text{ of } 4.8 = \underline{\hspace{2cm}} \quad \frac{4}{7} \text{ of } 6.3 = \underline{\hspace{2cm}}$$

$$\frac{1}{5} \text{ of } 6.5 = \underline{\hspace{2cm}} \quad \frac{5}{9} \text{ of } 7.2 = \underline{\hspace{2cm}}$$

- (5) Multiplying large numbers.

Example: $21 \times 3 = (20 \times 3) + (1 \times 3) = 60 + 3 = 63$

$$85 \times 8 = (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}})$$

$$= \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

Add and subtract these numbers.

(6) $531 + 437 = \underline{\hspace{2cm}}$ (11) $968 - 531 = \underline{\hspace{2cm}}$

(7) $407 + 173 = \underline{\hspace{2cm}}$ (12) $580 - 173 = \underline{\hspace{2cm}}$

(8) $561 + 177 = \underline{\hspace{2cm}}$ (13) $738 - 561 = \underline{\hspace{2cm}}$

(9) $\underline{\hspace{1cm}} + 279 = 974$ (14) $974 - \underline{\hspace{1cm}} = 695$

(10) $547 + \underline{\hspace{1cm}} = 760$ (15) $\underline{\hspace{1cm}} - 348 = 573$

Multiplying and dividing in 4's, 6's, 7's, 8's & 9's.

(16) $4 \times 6 = \underline{\hspace{1cm}}$ (21) $8 \div 4 = \underline{\hspace{1cm}}$

(17) $1 \times 7 = \underline{\hspace{1cm}}$ (22) $49 \div 7 = \underline{\hspace{1cm}}$

(18) $6 \times 9 = \underline{\hspace{1cm}}$ (23) $48 \div 6 = \underline{\hspace{1cm}}$

(19) $9 \times \underline{\hspace{1cm}} = 18$ (24) $27 \div \underline{\hspace{1cm}} = 9$

(20) $\underline{\hspace{1cm}} \times 8 = 64$ (25) $\underline{\hspace{1cm}} \div 8 = 2$

Working Space

- (1) Write in the missing numbers as you skip count backwards in 6's.



90, 84, _____, _____, _____, _____, 54, _____,
 _____, _____, _____, 24, _____, _____, 6

- (2) Skip counting in 7's, write the number that comes after ...

49, _____ 77, _____ 28, _____

- (3) Convert these fractions to decimals.

$$\frac{1}{4} = \underline{\hspace{2cm}} \quad \frac{7}{10} = \underline{\hspace{2cm}}$$

$$\frac{3}{4} = \underline{\hspace{2cm}} \quad \frac{1}{2} = \underline{\hspace{2cm}}$$

Answers:

0.5, 0.25

0.75, 0.7

- (4) Dividing large numbers.

$$6 \overline{) 1470}$$

$$8 \overline{) 5792}$$

$$7 \overline{) 3206}$$

$$9 \overline{) 2574}$$

- (5) Round these numbers to the nearest 10 or 100 and then work out an estimated answer.

$$89 + 75 + 194 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$8754 - 4194 = \underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Add and subtract these numbers.

(6) $224 + 574 = \underline{\hspace{2cm}}$ (11) $789 - 224 = \underline{\hspace{2cm}}$

(7) $213 + 547 = \underline{\hspace{2cm}}$ (12) $760 - 547 = \underline{\hspace{2cm}}$

(8) $564 + 154 = \underline{\hspace{2cm}}$ (13) $718 - 564 = \underline{\hspace{2cm}}$

(9) $\underline{\hspace{2cm}} + 287 = 834$ (14) $834 - \underline{\hspace{2cm}} = 547$

(10) $389 + \underline{\hspace{2cm}} = 902$ (15) $\underline{\hspace{2cm}} - 567 = 384$

Multiplying and dividing in 4's, 6's, 7's, 8's & 9's.

(16) $4 \times 10 = \underline{\hspace{2cm}}$ (21) $4 \div 4 = \underline{\hspace{2cm}}$

(17) $4 \times 7 = \underline{\hspace{2cm}}$ (22) $56 \div 7 = \underline{\hspace{2cm}}$

(18) $6 \times 6 = \underline{\hspace{2cm}}$ (23) $12 \div 6 = \underline{\hspace{2cm}}$

(19) $9 \times \underline{\hspace{2cm}} = 9$ (24) $63 \div \underline{\hspace{2cm}} = 9$

(20) $\underline{\hspace{2cm}} \times 8 = 32$ (25) $\underline{\hspace{2cm}} \div 8 = 9$

Working Space

- (1) Write in the missing numbers as you skip count in 7's.



7, _____, _____, 28, _____, _____, _____, 56,
 _____, _____, _____, _____, 91, _____, 105

Working Space

- (2) Skip counting in 8's, write the number that comes before ...

_____, 48 _____, 120 _____, 88

- (3) Find the percentage of these decimals.

10% of 8.90 = _____ 75% of 2.80 = _____

25% of 6.40 = _____ 20% of 8.50 = _____

- (4) Convert these decimals to percentages.

0.5 = _____ 0.75 = _____

0.25 = _____ 0.05 = _____

Answers:

5%, 50%

75%, 25%

- (5) Round these numbers to the nearest 10th.

8.76 = _____ 89.43 = _____

67.94 = _____ 109.15 = _____

Add and subtract these numbers.

(6) $324 + 265 =$ _____ (11) $589 - 324 =$ _____

(7) $355 + 315 =$ _____ (12) $670 - 315 =$ _____

(8) $142 + 592 =$ _____ (13) $734 - 142 =$ _____

(9) _____ + 387 = 852 (14) $852 -$ _____ = 465

(10) $612 +$ _____ = 890 (15) _____ - 279 = 695

Multiplying and dividing in 4's, 6's, 7's, 8's & 9's.

(16) $4 \times 4 =$ _____ (21) $32 \div 4 =$ _____

(17) $6 \times 7 =$ _____ (22) $21 \div 7 =$ _____

(18) $6 \times 1 =$ _____ (23) $30 \div 6 =$ _____

(19) $9 \times$ _____ = 81 (24) $90 \div$ _____ = 9

(20) _____ $\times 8 = 80$ (25) _____ $\div 8 = 1$

- (1) Write in the missing numbers as you skip count in 8's.



8, _____, 24, _____, _____, _____, _____,
72, _____, _____, 96, _____, _____, 120

- (2) Skip counting in 9's, write the number that is between ...

36 _____ 54, 72 _____ 90, 108 _____ 126

- (3) Convert these percentages to decimals.

25% = _____ 80% = _____

45% = _____ 75% = _____

Answers:

0.75, 0.45

0.8, 0.25

- (4) Multiplying decimals.

48.5	6.25	74.8
x 7	x 8	x 9

- (5) Find the square of these numbers.

Example: $3^2 = 3 \times 3 = 9$

$10^2 =$ _____ $9^2 =$ _____

$6^2 =$ _____ $12^2 =$ _____

Add and subtract these numbers.

(6) $237 + 412 =$ _____ (11) $739 - 523 =$ _____

(7) $278 + 612 =$ _____ (12) $902 - 389 =$ _____

(8) $166 + 492 =$ _____ (13) $936 - 754 =$ _____

(9) _____ + 348 = 921 (14) $951 -$ _____ = 384

(10) $315 +$ _____ = 670 (15) _____ - 387 = 465

Multiplying and dividing in 4's, 6's, 7's, 8's & 9's.

(16) $4 \times 5 =$ _____ (21) $28 \div 4 =$ _____

(17) $10 \times 7 =$ _____ (22) $63 \div 7 =$ _____

(18) $6 \times 4 =$ _____ (23) $18 \div 6 =$ _____

(19) $9 \times$ _____ = 54 (24) $45 \div$ _____ = 9

(20) _____ $\times 8 = 40$ (25) _____ $\div 8 = 7$

Working Space

- (1) Write in the missing numbers as you skip count backwards in 9's.



135, 126, _____, _____, _____, 90, _____, _____,
 _____, _____, 45, _____, _____, 18, _____

- (2) Skip counting in 4's, write the number that comes after ...

36, _____ 72, _____ 48, _____

- (3) Find the square root of these numbers.
 Example: $\sqrt{9} = 3$ as $3 \times 3 = 9$

$\sqrt{49} =$ _____ $\sqrt{144} =$ _____

$\sqrt{121} =$ _____ $\sqrt{64} =$ _____

- (4) Convert these decimals to fractions.

0.9 = _____ 0.25 = _____

0.75 = _____ 0.6 = _____

Answers:

$\frac{3}{4}, \frac{9}{10}$
 $\frac{3}{5}, \frac{1}{4}$

- (5) Dividing decimals.

$6 \overline{) 31.62}$ $7 \overline{) 2.583}$

$4 \overline{) 255.2}$ $9 \overline{) 39.42}$

Add and subtract these numbers.

(6) $523 + 216 =$ _____ (11) $649 - 237 =$ _____

(7) $513 + 389 =$ _____ (12) $890 - 612 =$ _____

(8) $754 + 182 =$ _____ (13) $658 - 166 =$ _____

(9) _____ + 567 = 951 (14) $921 -$ _____ = 573

(10) $173 +$ _____ = 580 (15) _____ - 287 = 547

Multiplying and dividing in 4's, 6's, 7's, 8's & 9's.

(16) $4 \times 3 =$ _____ (21) $36 \div 4 =$ _____

(17) $5 \times 7 =$ _____ (22) $14 \div 7 =$ _____

(18) $6 \times 10 =$ _____ (23) $42 \div 6 =$ _____

(19) $9 \times$ _____ = 36 (24) $72 \div$ _____ = 9

(20) _____ $\times 8 = 24$ (25) _____ $\div 8 = 6$

Working Space

- (1) Write in the missing numbers as you skip count in 9's.



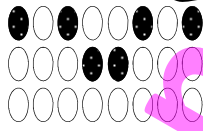
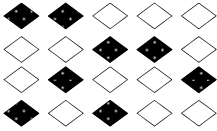
9, _____, 27, _____, _____, _____, _____, 72,
 _____, 90, _____, _____, _____, 126, _____

- (2) Round these numbers to the nearest 10.

586 = _____ 473 = _____

124 = _____ 835 = _____

- (3) What fraction of each group of shapes is shaded?



- (4) Fill in the missing fractions, decimals or percentages.



fraction	decimal	percentage
↔	↔	50%
$\frac{1}{4}$	↔	↔
↔	0.75	↔

- (5) Order of operations.

BEDMAS

$17 + 24 \div 3 =$ _____ $6 \times 7 + 8 =$ _____

$48 \div 4 - 9 =$ _____ $50 - 5 \times 7 =$ _____

$60 - 27 \div 9 =$ _____ $8 \times 6 + 13 =$ _____

Add and subtract these numbers.

(6) $224 + 574 =$ _____ (11) $739 - 523 =$ _____

(7) $213 + 547 =$ _____ (12) $902 - 389 =$ _____

(8) $564 + 154 =$ _____ (13) $936 - 754 =$ _____

(9) _____ + 287 = 834 (14) 951 - _____ = 384

(10) $265 +$ _____ = 589 (15) _____ - 142 = 592

Multiplying and dividing in 4's, 6's, 7's, 8's & 9's.

(16) $4 \times 9 =$ _____ (21) $28 \div 4 =$ _____

(17) $7 \times 6 =$ _____ (22) $30 \div 6 =$ _____

(18) $7 \times 5 =$ _____ (23) $56 \div 7 =$ _____

(19) $8 \times$ _____ = 64 (24) $48 \div$ _____ = 8

(20) _____ $\times 9 = 54$ (25) _____ $\div 9 = 4$

Working Space

- (1) Write these numbers in order from **smallest** to **largest**.



0.25
1.06
9
12.04
0.09

_____ , _____ , _____ , _____ , _____

Working Space

- (2) What is the **value** of the **BOLD** digit in each money total?

Example: In \$67 the 7 means 7 dollars.



\$45**2** = _____ \$9**2**0 = _____

\$8**3**4 = _____ \$48**3** = _____

- (3) Round these numbers to the **nearest 100**.

378 = _____ 946 = _____

427 = _____ 350 = _____

- (4) Convert these percentages to **decimals**.

50% = _____ 75% = _____

25% = _____ 40% = _____

Answers:

0.4, 0.5

0.75, 0.25

- (5) Adding large numbers.

3143 + 732 + 13 = _____

471 + 26 + 534 = _____

72 + 494 + 4124 = _____

- (6) Subtracting large numbers.

1298 - 53 = _____ 5647

13427 - 965 = _____ - 482

27385 - 3621 = _____

- (7) Multiplying large numbers using place value.

Example: $231 \times 3 = (200 \times 3) + (30 \times 3) + (1 \times 3) = 600 + 90 + 3 = 693$

$348 \times 4 = (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad})$

$= \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$

- (8) Dividing large numbers.

$2 \overline{) 756}$

$5 \overline{) 1275}$

$3 \overline{) 612}$

$4 \overline{) 2684}$

- (1) **Skip counting in 8's, write the number that comes after ...**



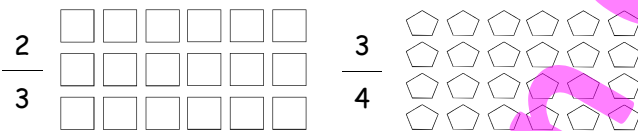
24, _____ 64, _____ 72, _____

- (2) **Round these numbers to the nearest 10 or 100 and then work out an estimated answer.**

$$69 + 27 + 205 = \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$709 - 495 = \underline{\quad} - \underline{\quad} = \underline{\quad}$$

- (3) **Shade** in part of each group of shapes to show you understand these fractions.



- (4) **Convert these decimals to percentages.**

$$0.25 = \underline{\quad\quad\quad} \quad 0.6 = \underline{\quad\quad\quad}$$

$$0.3 = \underline{\quad\quad\quad} \quad 0.75 = \underline{\quad\quad\quad}$$

Answers:

60%, 75%

30%, 25%

- (5) **Adding large numbers.**

	1675
	81
462 + 14 + 2738 = _____	32523
535 + _____ + 47 = 3412	+ 426
41 + 972 + _____ = 1670	_____

- (6) **Subtracting large numbers.**

3286 - _____ = 2516	15539
_____ - 2608 = 974	-
21573 - _____ = 19706	6351

- (7) **Multiplying whole numbers.**

		920
		x 23
579	341	_____
x 5	x 6	_____
_____	_____	_____
_____	_____	_____

- (8) **Dividing large numbers using multiples of 10.**

Example: $145 \div 5 = (100 \div 5) + (45 \div 5) = 20 + 9 = 29$

$$436 \div 4 = (\underline{\quad} \div \underline{\quad}) + (\underline{\quad} \div \underline{\quad})$$

$$= \underline{\quad} + \underline{\quad} = \underline{\quad}$$

Working Space

- (1) Write these number words as a numeral.

seventy-two thousand, four hundred

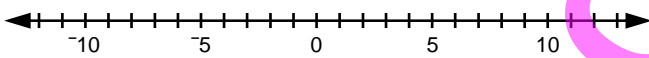
and ninety-three _____

- (2) Round these numbers to the nearest 1000.

4200 = _____ 6321 = _____

5960 = _____ 7500 = _____

- (3) Add these positive and negative numbers.



$-5 + 9 =$ _____

$-10 + 4 =$ _____

3 + $-11 =$ _____ 

9 + $-6 =$ _____

- (4) Find the square of these numbers.

Example: $3^2 = 3 \times 3 = 9$

$4^2 =$ _____ $9^2 =$ _____

$10^2 =$ _____ $7^2 =$ _____

- (5) Adding decimals.

$$\begin{array}{r} 93.04 + 40.6 + 8.3 = \end{array}$$

$$\begin{array}{r} 4.94 + 5 + 38.7 = \end{array}$$

$$\begin{array}{r} 59 + 1.86 + 94.3 = \end{array}$$

341.8

2.8

5291.0

+ 38.4

- (6) Subtracting decimals.

$316.2 - 29.4 =$ _____ 38.95

$578.27 - 85.84 =$ _____ - 7.28

$298.62 - 43.9 =$ _____

- (7) Multiplying large numbers using 'tidy' numbers.

Example: $296 \times 3 = (300 \times 3) - (4 \times 3) = 900 - 12 = 888$

$368 \times 5 = (\text{ } \times \text{ }) - (\text{ } \times \text{ })$

$= \text{ } - \text{ } = \text{ }$

- (8) Dividing decimals.

$$\begin{array}{r} 3 \overline{) 1.68} \end{array}$$

$$\begin{array}{r} 4 \overline{) 38.08} \end{array}$$

$$\begin{array}{r} 6 \overline{) 35.4} \end{array}$$

$$\begin{array}{r} 7 \overline{) 2.702} \end{array}$$

Working Space

- (1) **Skip counting in 7's, write the number that comes before ...**



_____, 49 _____, 21 _____, 63

Working Space

- (2) What is the **place value** of the **BOLD** digit and what does it mean?

Example: In 452 the place value is 10's and it means 50.

524 = _____ = _____ **930** = _____ = _____

817 = _____ = _____ **264** = _____ = _____

- (3) Find each **fraction** of these whole numbers.

$\frac{1}{3}$ of 240 = _____ $\frac{3}{4}$ of 480 = _____

$\frac{2}{3}$ of 450 = _____ $\frac{3}{5}$ of 750 = _____

- (4) Convert these **decimals** to **fractions**.

0.5 = _____ 0.6 = _____

0.75 = _____ 0.25 = _____

Answers:

$\frac{3}{5}, \frac{3}{4}$

$\frac{1}{4}, \frac{1}{2}$

- (5) **Adding** decimals.

65.81

59.36 + 58.9 + 72 = _____

0.35

24.75 + _____ + 69 = 130.45

472.07

54 + 9.4 + _____ = 81.13

+ 3.98

- (6) **Subtracting** large numbers.

147.1 - _____ = 71.9

188.35

_____ - 64.38 = 509.36

-

264.17 - _____ = 218.57

93.79

- (7) **Multiplying** decimals.

4.15

53.8

9.72

x 7.3

x 4

x 6

- (8) **Dividing** large numbers using 'tidy' numbers.

Example: $195 \div 5 = (200 \div 5) - (5 \div 5) = 20 - 1 = 19$

$232 \div 8 = (\text{_____} \div \text{_____}) - (\text{_____} \div \text{_____})$

$= \text{_____} - \text{_____} = \text{_____}$

- (1) Write this numeral as number words.



50806

- (2) Round these numbers to the nearest 10 or 100 and then work out an estimated answer.

$$91 + 57 + 207 = \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$782 - 509 = \underline{\quad} - \underline{\quad} = \underline{\quad}$$

- (3) Convert these improper fractions to mixed numbers. Example:
- $\frac{11}{4} = 2\frac{3}{4}$

$$\frac{13}{2} = \underline{\quad}$$

$$\frac{16}{3} = \underline{\quad}$$

$$\frac{19}{4} = \underline{\quad}$$

$$\frac{27}{5} = \underline{\quad}$$



- (4) Convert these fractions to decimals.

$$\frac{1}{2} = \underline{\quad} \quad \frac{3}{4} = \underline{\quad}$$

$$\frac{4}{5} = \underline{\quad} \quad \frac{1}{4} = \underline{\quad}$$

Answers:

0.8, 0.5

0.25, 0.75

- (5) Order of operations.

BEDMAS

$$37 - 4 \times 7 = \underline{\quad} \quad 81 \div 9 - 7 = \underline{\quad}$$

$$14 + 54 \div 6 = \underline{\quad} \quad 40 - 36 \div 4 = \underline{\quad}$$

$$5 \times 9 + 18 = \underline{\quad} \quad 7 \times 6 - 27 = \underline{\quad}$$

Add and subtract these numbers.

$$(6) \quad 523 + 216 = \underline{\quad} \quad (11) \quad 589 - 324 = \underline{\quad}$$

$$(7) \quad 513 + 389 = \underline{\quad} \quad (12) \quad 670 - 315 = \underline{\quad}$$

$$(8) \quad 754 + 182 = \underline{\quad} \quad (13) \quad 734 - 142 = \underline{\quad}$$

$$(9) \quad \underline{\quad} + 567 = 951 \quad (14) \quad 852 - \underline{\quad} = 465$$

$$(10) \quad 437 + \underline{\quad} = 968 \quad (15) \quad \underline{\quad} - 561 = 177$$

Multiplying and dividing in 4's, 6's, 7's, 8's & 9's.

$$(16) \quad 4 \times 7 = \underline{\quad} \quad (21) \quad 20 \div 4 = \underline{\quad}$$

$$(17) \quad 5 \times 6 = \underline{\quad} \quad (22) \quad 48 \div 6 = \underline{\quad}$$

$$(18) \quad 7 \times 8 = \underline{\quad} \quad (23) \quad 42 \div 7 = \underline{\quad}$$

$$(19) \quad 8 \times \underline{\quad} = 48 \quad (24) \quad 32 \div \underline{\quad} = 8$$

$$(20) \quad \underline{\quad} \times 9 = 36 \quad (25) \quad \underline{\quad} \div 9 = 9$$

Working Space

- (1) Write these number words as **decimal numerals**.



three point zero two four _____

nineteen point five eight six two _____

- (2) Write two **equivalent fractions**.

$$\frac{3}{4} = \frac{\quad}{\quad} = \frac{\quad}{\quad} \quad \frac{2}{3} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

- (3) Round these numbers to the **nearest 100th**.

$$4.093 = \underline{\quad\quad\quad} \quad 8.259 = \underline{\quad\quad\quad}$$

$$61.215 = \underline{\quad\quad\quad} \quad 48.327 = \underline{\quad\quad\quad}$$

- (4) Convert these **fractions to percentages**.

$$\frac{2}{5} = \underline{\quad\quad\quad} \quad \frac{1}{4} = \underline{\quad\quad\quad}$$

$$\frac{3}{4} = \underline{\quad\quad\quad} \quad \frac{7}{10} = \underline{\quad\quad\quad}$$

Answers:
25%, 70%
40%, 75%

- (5) **Adding large numbers.**

$$613 + 4690 + 79 = \underline{\quad\quad\quad} \quad \begin{array}{r} 541 \\ 3949 \end{array}$$

$$71 + \underline{\quad\quad\quad} + 3176 = 3901 \quad \begin{array}{r} 73 \\ + 260 \end{array}$$

$$2358 + 89 + \underline{\quad\quad\quad} = 3049 \quad \underline{\quad\quad\quad}$$

- (6) **Subtracting large numbers.**

$$7238 - \underline{\quad\quad\quad} = 7153 \quad \begin{array}{r} 3958 \\ - \end{array}$$

$$\underline{\quad\quad\quad} - 649 = 3263 \quad \underline{\quad\quad\quad}$$

$$11090 - \underline{\quad\quad\quad} = 8127 \quad \begin{array}{r} 3799 \\ - \end{array}$$

- (7) **Multiplying whole numbers.**

$$193 \quad \begin{array}{r} 257 \\ \times 76 \end{array}$$

$$\underline{\quad\quad\quad} \quad \begin{array}{r} 257 \\ \times 9 \end{array}$$

$$\underline{\quad\quad\quad} \quad \underline{\quad\quad\quad}$$

- (8) **Dividing large numbers using multiples of 10.**

Example: $145 \div 5 = (100 \div 5) + (45 \div 5) = 20 + 9 = 29$

$$945 \div 9 = (\underline{\quad\quad\quad} \div \underline{\quad\quad\quad}) + (\underline{\quad\quad\quad} \div \underline{\quad\quad\quad})$$

$$= \underline{\quad\quad\quad} + \underline{\quad\quad\quad} = \underline{\quad\quad\quad}$$

Working Space

- (1) **Skip counting in 8's, write the number that comes after ...**



$$64, \underline{\hspace{2cm}} \quad 32, \underline{\hspace{2cm}} \quad 88, \underline{\hspace{2cm}}$$

- (2) **Round these numbers to the nearest 10th and then work out an estimated answer.**

$$27.89 + 6.43 = \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

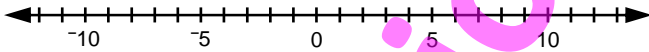
$$9.73 - 6.15 = \underline{\hspace{1cm}} - \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

- (3) **Find each fraction of these decimals.**

$$\frac{1}{2} \text{ of } 8.4 = \underline{\hspace{2cm}} \quad \frac{1}{4} \text{ of } 6.8 = \underline{\hspace{2cm}}$$

$$\frac{3}{4} \text{ of } 5.2 = \underline{\hspace{2cm}} \quad \frac{2}{3} \text{ of } 3.6 = \underline{\hspace{2cm}}$$

- (4) **Add these positive and negative numbers.**



$$-9 + 8 = \underline{\hspace{2cm}} \quad -4 + 9 = \underline{\hspace{2cm}}$$

$$10 + -4 = \underline{\hspace{2cm}} \quad 2 + -11 = \underline{\hspace{2cm}}$$



- (5) **Adding decimals.**

$$\begin{array}{r} 93.09 + 6.3 + 280.8 = \underline{\hspace{2cm}} \\ 2.31 + 382.74 + 69.9 = \underline{\hspace{2cm}} \\ 5.205 + 6.78 + 14.67 = \underline{\hspace{2cm}} \end{array} \quad \begin{array}{r} 0.15 \\ 368.25 \\ 0.57 \\ + 17.80 \end{array}$$

- (6) **Subtracting decimals.**

$$\begin{array}{r} 301.8 - 47.4 = \underline{\hspace{2cm}} \\ 358.70 - 77.32 = \underline{\hspace{2cm}} \\ 1526.73 - 354.8 = \underline{\hspace{2cm}} \end{array} \quad \begin{array}{r} 584.06 \\ - 37.85 \end{array}$$

- (7) **Multiplying large numbers using 'tidy' numbers.**

Example: $296 \times 3 = (300 \times 3) - (4 \times 3) = 900 - 12 = 888$

$$\begin{array}{l} 588 \times 6 = (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) - (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) \\ = \underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \end{array}$$

- (8) **Dividing decimals.**

$$6 \overline{) 3.84} \qquad 7 \overline{) 1.736}$$

$$8 \overline{) 49.6} \qquad 9 \overline{) 37.53}$$

Working Space

- (1) Write these decimals as number words.

4.309
_____13.058

- (2) What is the
- place value**
- of the
- BOLD**
- digit and what does it mean?

Example: In 4.**5**2 the place value is $1/10$'s and it means $5/10$.

$9.\mathbf{5}3 = \underline{\quad} = \underline{\quad}$ $6.\mathbf{25} = \underline{\quad} = \underline{\quad}$

$4.0\mathbf{7} = \underline{\quad} = \underline{\quad}$ $8.\mathbf{10} = \underline{\quad} = \underline{\quad}$

- (3) Convert these mixed numbers to improper fractions.
- Example:*
- $4\frac{2}{3} = \frac{14}{3}$

$2\frac{1}{4} = \underline{\quad}$ $4\frac{3}{5} = \underline{\quad}$

$5\frac{2}{3} = \underline{\quad}$ $3\frac{4}{7} = \underline{\quad}$



- (4) Convert these percentages to fractions.

$50\% = \underline{\quad}$ $25\% = \underline{\quad}$

$90\% = \underline{\quad}$ $60\% = \underline{\quad}$

Answers:

 $\frac{1}{4}, \frac{1}{2}$ $\frac{3}{5}, \frac{9}{10}$

- (5) Adding decimals.

$367.1 + 2.54 + 82.6 = \underline{\quad}$	1.80
$82.14 + \underline{\quad} + 9.35 = 675.09$	3.51
$168.6 + 44.59 + \underline{\quad} = 233.47$	48.47
	+ 0.93

- (6) Subtracting large numbers.

$357.8 - \underline{\quad} = 284.9$	738.5
$\underline{\quad} - 487.2 = 279.67$	-
$2916.7 - \underline{\quad} = 2566.91$	678.9

- (7) Multiplying decimals.

35.8	1.94	53.8
$\times 5$	$\times 8$	$\times 4.9$
_____	_____	_____
_____	_____	_____

- (8) Dividing large numbers using 'tidy' numbers.

Example: $195 \div 5 = (200 \div 5) - (5 \div 5) = 20 - 1 = 19$

$$873 \div 9 = (\underline{\quad} \div \underline{\quad}) - (\underline{\quad} \div \underline{\quad})$$

$$= \underline{\quad} - \underline{\quad} = \underline{\quad}$$

Working Space

(1) Solve these equations.

$$5d + 45 = 110 \quad d = \underline{\hspace{2cm}}$$

$$3k - 19 = 53 \quad k = \underline{\hspace{2cm}}$$

(2) Round these numbers to the nearest 10.

$$208 = \underline{\hspace{2cm}} \quad 412 = \underline{\hspace{2cm}}$$

$$683 = \underline{\hspace{2cm}} \quad 935 = \underline{\hspace{2cm}}$$

(3) Find the square of these numbers.

Example: $3^2 = 3 \times 3 = 9$

$$6^2 = \underline{\hspace{2cm}} \quad 11^2 = \underline{\hspace{2cm}}$$

$$12^2 = \underline{\hspace{2cm}} \quad 5^2 = \underline{\hspace{2cm}}$$

(4) Convert these percentages to decimals.

$$50\% = \underline{\hspace{2cm}} \quad 25\% = \underline{\hspace{2cm}} \quad 75\% = \underline{\hspace{2cm}}$$

$$40\% = \underline{\hspace{2cm}} \quad 90\% = \underline{\hspace{2cm}} \quad 37\% = \underline{\hspace{2cm}}$$

(5) Order of operations.

BEDMAS

$$27 + 72 \div 8 = \underline{\hspace{2cm}} \quad 6 \times 7 + 79 = \underline{\hspace{2cm}}$$

$$95 \div 5 - 13 = \underline{\hspace{2cm}} \quad 92 - 7 \times 8 = \underline{\hspace{2cm}}$$

$$41 - 64 \div 8 = \underline{\hspace{2cm}} \quad 8 \times 12 + 39 = \underline{\hspace{2cm}}$$

Add and subtract these numbers.

$$(6) \quad 324 + 265 = \underline{\hspace{2cm}} \quad (11) \quad 968 - 531 = \underline{\hspace{2cm}}$$

$$(7) \quad 355 + 315 = \underline{\hspace{2cm}} \quad (12) \quad 580 - 173 = \underline{\hspace{2cm}}$$

$$(8) \quad 142 + 592 = \underline{\hspace{2cm}} \quad (13) \quad 738 - 561 = \underline{\hspace{2cm}}$$

$$(9) \quad \underline{\hspace{2cm}} + 387 = 852 \quad (14) \quad 974 - \underline{\hspace{2cm}} = 695$$

$$(10) \quad 412 + \underline{\hspace{2cm}} = 649 \quad (15) \quad \underline{\hspace{2cm}} - 166 = 492$$

Multiplying and dividing in 4's, 6's, 7's, 8's & 9's.

$$(16) \quad 4 \times 5 = \underline{\hspace{2cm}} \quad (21) \quad 32 \div 4 = \underline{\hspace{2cm}}$$

$$(17) \quad 8 \times 6 = \underline{\hspace{2cm}} \quad (22) \quad 36 \div 6 = \underline{\hspace{2cm}}$$

$$(18) \quad 7 \times 6 = \underline{\hspace{2cm}} \quad (23) \quad 28 \div 7 = \underline{\hspace{2cm}}$$

$$(19) \quad 8 \times \underline{\hspace{2cm}} = 32 \quad (24) \quad 72 \div \underline{\hspace{2cm}} = 8$$

$$(20) \quad \underline{\hspace{2cm}} \times 9 = 81 \quad (25) \quad \underline{\hspace{2cm}} \div 9 = 7$$

Working Space

- (1) Write these numbers in order from **smallest to largest**.



1.24
16
0.149
18.5
0.015

_____ , _____ , _____ , _____ , _____

Working Space

- (2) What is the **value** of the **BOLD** digit in each money total?

Example: In \$6.75 the 7 means 70 cents.



$$\mathbf{\$5.27} = \underline{\hspace{2cm}} \quad \mathbf{\$6.25} = \underline{\hspace{2cm}}$$

$$\mathbf{\$9.43} = \underline{\hspace{2cm}} \quad \mathbf{\$8.01} = \underline{\hspace{2cm}}$$

- (3) Convert these percentages to fractions.

$$25\% = \underline{\hspace{2cm}} \quad 60\% = \underline{\hspace{2cm}} \quad 5\% = \underline{\hspace{2cm}}$$

$$50\% = \underline{\hspace{2cm}} \quad 30\% = \underline{\hspace{2cm}} \quad 75\% = \underline{\hspace{2cm}}$$

- (4) Round these numbers to the **nearest 100**.

$$974 = \underline{\hspace{2cm}} \quad 826 = \underline{\hspace{2cm}}$$

$$519 = \underline{\hspace{2cm}} \quad 350 = \underline{\hspace{2cm}}$$

- (5) Adding large numbers.

$$157 + 1349 + 23 = \underline{\hspace{2cm}}$$

$$90 + 748 + 2935 = \underline{\hspace{2cm}}$$

$$1376 + 20 + 398 = \underline{\hspace{2cm}}$$

370

67

2585

+ 915

- (6) Subtracting large numbers.

$$4026 - 376 = \underline{\hspace{2cm}} \quad 42000$$

$$5802 - 816 = \underline{\hspace{2cm}} \quad - 975$$

$$10393 - 937 = \underline{\hspace{2cm}} \quad \underline{\hspace{2cm}}$$

- (7) Multiplying large numbers using place value.

Example: $231 \times 3 = (200 \times 3) + (30 \times 3) + (1 \times 3) = 600 + 90 + 3 = 693$

$$645 \times 7 = (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}})$$

$$= \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

- (8) Dividing large numbers.

$$\begin{array}{r} \underline{\hspace{1cm}} \\ 9 \overline{) 441} \end{array}$$

$$\begin{array}{r} \underline{\hspace{1cm}} \\ 6 \overline{) 3228} \end{array}$$

$$\begin{array}{r} \underline{\hspace{1cm}} \\ 8 \overline{) 520} \end{array}$$

$$\begin{array}{r} \underline{\hspace{1cm}} \\ 7 \overline{) 4473} \end{array}$$

- (1) **Skip counting in 7's, write the number that comes after ...**



35, _____ 63, _____ 77, _____

- (2) **Round these numbers to the nearest 10 or 100 and then work out an estimated answer.**

$$67 + 189 + 52 = \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$987 - 536 = \underline{\quad} - \underline{\quad} = \underline{\quad}$$

- (3) **Find each fraction of these decimals.**

$$\frac{1}{5} \text{ of } 4.5 = \underline{\quad} \quad \frac{1}{3} \text{ of } 2.4 = \underline{\quad}$$

$$\frac{3}{4} \text{ of } 8.4 = \underline{\quad} \quad \frac{3}{8} \text{ of } 3.2 = \underline{\quad}$$

- (4) **Convert these decimals to percentages.**

$$0.5 = \underline{\quad} \quad 0.43 = \underline{\quad} \quad 0.6 = \underline{\quad}$$

$$0.25 = \underline{\quad} \quad 0.05 = \underline{\quad} \quad 0.75 = \underline{\quad}$$

- (5) **Adding large numbers.**

$$482 + 1312 + 54 = \underline{\quad}$$

$$67 + \underline{\quad} + 1398 = 1672$$

$$2382 + 45 + \underline{\quad} = 2613$$

158

3564

27

+ 318

- (6) **Subtracting large numbers.**

$$2986 - \underline{\quad} = 2302$$

$$\underline{\quad} - 358 = 4419$$

$$5633 - \underline{\quad} = 3298$$

3637

-

2241

- (7) **Multiplying whole numbers.**

$$\begin{array}{r} 269 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 326 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} \\ \\ \end{array}$$

853

x 67

- (8) **Dividing large numbers using multiples of 10.**

Example: $145 \div 5 = (100 \div 5) + (45 \div 5) = 20 + 9 = 29$

$$1648 \div 8 = (\underline{\quad} \div \underline{\quad}) + (\underline{\quad} \div \underline{\quad})$$

$$= \underline{\quad} + \underline{\quad} = \underline{\quad}$$

Working Space

(1) **Order of operations.****BEDMAS**

Working Space

$$13 + 36 \div 6 = \underline{\hspace{2cm}} \qquad 7 \times 5 + 16 = \underline{\hspace{2cm}}$$

$$63 \div 7 + 15 = \underline{\hspace{2cm}} \qquad 70 - 6 \times 9 = \underline{\hspace{2cm}}$$

(2) **Round these numbers to the nearest 1000.**

$$8470 = \underline{\hspace{2cm}} \qquad 3690 = \underline{\hspace{2cm}}$$

$$2725 = \underline{\hspace{2cm}} \qquad 7500 = \underline{\hspace{2cm}}$$

(3) **Find the percentage of these numbers.**

$$10\% \text{ of } 90 = \underline{\hspace{2cm}} \qquad 50\% \text{ of } 72 = \underline{\hspace{2cm}}$$

$$25\% \text{ of } 36 = \underline{\hspace{2cm}} \qquad 75\% \text{ of } 60 = \underline{\hspace{2cm}}$$

(4) **Find the square root of these numbers.***Example: $\sqrt{9} = 3$ as $3 \times 3 = 9$*

$$\sqrt{25} = \underline{\hspace{2cm}} \qquad \sqrt{121} = \underline{\hspace{2cm}}$$

$$\sqrt{81} = \underline{\hspace{2cm}} \qquad \sqrt{49} = \underline{\hspace{2cm}}$$

(5) **Adding decimals.**

$$56.84 + 530.23 + 9.7 = \underline{\hspace{2cm}} \qquad \begin{array}{r} 9.5 \\ 4133.5 \end{array}$$

$$274.19 + 6.2 + 93.58 = \underline{\hspace{2cm}} \qquad \begin{array}{r} 71.5 \\ + 621.1 \end{array}$$

$$8.7 + 39.6 + 624.1 = \underline{\hspace{2cm}}$$

(6) **Subtracting decimals.**

$$148.45 - 5.27 = \underline{\hspace{2cm}} \qquad \begin{array}{r} 148.83 \\ - 75.96 \end{array}$$

$$64.782 - 1.36 = \underline{\hspace{2cm}}$$

$$931.0 - 463.23 = \underline{\hspace{2cm}}$$

(7) **Multiplying large numbers using 'tidy' numbers.***Example: $296 \times 3 = (300 \times 3) - (4 \times 3) = 900 - 12 = 888$*

$$593 \times 8 = (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) - (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}})$$

$$= \underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

(8) **Dividing decimals.**

$$4 \overline{) 2.92}$$

$$7 \overline{) 37.03}$$

$$9 \overline{) 72.9}$$

$$8 \overline{) 383.2}$$

- (1) Skip counting in 8's, write the number that comes before ...



_____, 64 _____, 32 _____, 96

- (2) What is the **place value** of the **BOLD** digit and what does it mean?

Example: In 452 the place value is 10's and it means 50.

932 = _____ = _____ **1**43 = _____ = _____

5**0**7 = _____ = _____ 8**6**5 = _____ = _____

- (3) Find the **percentage** of these decimals.

20% of 3.2 = _____ 75% of 4.8 = _____

25% of 2.8 = _____ 50% of 6.3 = _____

- (4) Convert these **decimals** to **fractions**.

0.5 = _____ 0.25 = _____ 0.6 = _____

0.9 = _____ 0.67 = _____ 0.75 = _____

- (5) **Adding** decimals.

	331.8
	52.7
13.6 + 324.2 + 7.65 = _____	
142.7 + _____ + 4.55 = 157.67	5120.9
	+ 47.9
9.39 + 46.8 + _____ = 302.54	_____

- (6) **Subtracting** large numbers.

259.34 - _____ = 187.84	397.13
_____ - 21.53 = 436.27	-
1788.3 - _____ = 162.87	342.49

- (7) **Multiplying** decimals.

	74.1	
67.3	3.90	x 6.9
x 5	x 8	
_____	_____	_____
_____	_____	_____

- (8) **Dividing** large numbers using 'tidy' numbers.

Example: $195 \div 5 = (200 \div 5) - (5 \div 5) = 20 - 1 = 19$

$665 \div 7 = (\underline{\quad} \div \underline{\quad}) - (\underline{\quad} \div \underline{\quad})$
 $= \underline{\quad} - \underline{\quad} = \underline{\quad}$

Working Space

- (1) Round these numbers to the nearest 10 or 100 and then work out an estimated answer.

$$517 + 79 + 792 = \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$642 - 275 = \underline{\quad} - \underline{\quad} = \underline{\quad}$$

- (2) Multiplying by 10, 100 or 1000.

$$5.2 \times 10 = \underline{\quad} \quad 9.3 \times 1000 = \underline{\quad}$$

$$7.1 \times 1000 = \underline{\quad} \quad 8.4 \times 100 = \underline{\quad}$$

- (3) Convert these improper fractions to mixed numbers. Example: $\frac{11}{4} = 2\frac{3}{4}$

$$\frac{19}{5} = \underline{\quad} \quad \frac{21}{6} = \underline{\quad}$$

$$\frac{30}{7} = \underline{\quad} \quad \frac{42}{8} = \underline{\quad}$$



- (4) A group of 9 pupils from Room 8 went on a bus ride to the zoo. If this group makes up $\frac{1}{3}$ of the Room 8 pupils, how many pupils are there in Room 8?



- (5) Order of operations.

BEDMAS

$$80 - 9 \times 6 = \underline{\quad} \quad 95 \div 5 - 8 = \underline{\quad}$$

$$5 \times 12 - 19 = \underline{\quad} \quad 64 - 63 \div 7 = \underline{\quad}$$

$$36 + 81 \div 9 = \underline{\quad} \quad 8 \times 8 + 29 = \underline{\quad}$$

Add and subtract these numbers.

$$(6) \quad 531 + 437 = \underline{\quad} \quad (11) \quad 649 - 237 = \underline{\quad}$$

$$(7) \quad 407 + 173 = \underline{\quad} \quad (12) \quad 890 - 612 = \underline{\quad}$$

$$(8) \quad 561 + 177 = \underline{\quad} \quad (13) \quad 658 - 166 = \underline{\quad}$$

$$(9) \quad \underline{\quad} + 279 = 974 \quad (14) \quad 921 - \underline{\quad} = 573$$

$$(10) \quad 574 + \underline{\quad} = 798 \quad (15) \quad \underline{\quad} - 564 = 154$$

Multiplying and dividing in 4's, 6's, 7's, 8's & 9's.

$$(16) \quad 4 \times 8 = \underline{\quad} \quad (21) \quad 16 \div 4 = \underline{\quad}$$

$$(17) \quad 6 \times 6 = \underline{\quad} \quad (22) \quad 24 \div 6 = \underline{\quad}$$

$$(18) \quad 7 \times 4 = \underline{\quad} \quad (23) \quad 63 \div 7 = \underline{\quad}$$

$$(19) \quad 8 \times \underline{\quad} = 72 \quad (24) \quad 56 \div \underline{\quad} = 8$$

$$(20) \quad \underline{\quad} \times 9 = 63 \quad (25) \quad \underline{\quad} \div 9 = 8$$

Working Space

- (1) **Skip counting in 6's, write the number that is between ...**



$$18 \quad \underline{\quad} \quad 30, \quad 42 \quad \underline{\quad} \quad 54, \quad 66 \quad \underline{\quad} \quad 78$$

- (2) **Round these numbers to the nearest 10th.**

$$2.93 = \underline{\quad\quad\quad} \quad 5.64 = \underline{\quad\quad\quad}$$

$$9.87 = \underline{\quad\quad\quad} \quad 7.45 = \underline{\quad\quad\quad}$$

- (3) **Solve these equations.**

$$8s + 45 = 109 \quad s = \underline{\quad\quad\quad}$$

$$7m - 47 = 37 \quad m = \underline{\quad\quad\quad}$$

- (4) **Convert these fractions to decimals.**

$$\frac{1}{2} = \underline{\quad\quad} \quad \frac{3}{4} = \underline{\quad\quad} \quad \frac{4}{5} = \underline{\quad\quad}$$

$$\frac{1}{4} = \underline{\quad\quad} \quad \frac{9}{10} = \underline{\quad\quad} \quad \frac{73}{100} = \underline{\quad\quad}$$

- (5) **Adding large numbers.**

$$\begin{array}{r} 1943 + 32 + 751 = \underline{\quad\quad\quad} \\ 847 + 5390 + 29 = \underline{\quad\quad\quad} \\ 89 + 302 + 6731 = \underline{\quad\quad\quad} \end{array} \quad \begin{array}{r} 5852 \\ 770 \\ 36 \\ + 519 \\ \hline \end{array}$$

- (6) **Subtracting large numbers.**

$$\begin{array}{r} 4620 - 673 = \underline{\quad\quad\quad} \\ 7208 - 618 = \underline{\quad\quad\quad} \\ 12393 - 739 = \underline{\quad\quad\quad} \end{array} \quad \begin{array}{r} 27000 \\ - 579 \\ \hline \end{array}$$

- (7) **Multiplying large numbers using place value.**

Example: $231 \times 3 = (200 \times 3) + (30 \times 3) + (1 \times 3) = 600 + 90 + 3 = 693$

$$\begin{aligned} 276 \times 9 &= (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad}) \\ &= \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad\quad\quad} \end{aligned}$$

- (8) **Dividing large numbers with remainders.**

$$\begin{array}{r} \overline{)427} \\ \overline{)2398} \\ \overline{)684} \\ \overline{)9207} \end{array}$$

Working Space

- (1) Write these number words as **decimal numerals**.



seventeen point zero eight nine _____

thirty-seven point two five six _____

- (2) Write two **equivalent fractions** for each.

$$\frac{3}{5} = \frac{\quad}{\quad} = \frac{\quad}{\quad} \quad \frac{5}{8} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

- (3) Round these numbers to the **nearest 100th**.

$$1.457 = \underline{\quad\quad\quad} \quad 7.563 = \underline{\quad\quad\quad}$$

$$20.932 = \underline{\quad\quad\quad} \quad 63.105 = \underline{\quad\quad\quad}$$

- (4) A group of 7 pupils from Room 12 travel to school by bus.
If this group makes up 25% of the Room 12 pupils, how many pupils are there in Room 12?



- (5) **Adding** large numbers.

$$45 + 3421 + 284 = \underline{\quad\quad\quad} \quad \begin{array}{r} 851 \\ 4653 \\ 72 \\ + 913 \\ \hline \end{array}$$

$$1893 + \underline{\quad\quad\quad} + 76 = 2127$$

$$283 + 54 + \underline{\quad\quad\quad} = 3162$$

- (6) **Subtracting** large numbers.

$$6892 - \underline{\quad\quad\quad} = 2032 \quad \begin{array}{r} 6347 \\ - \\ \hline \end{array}$$

$$\underline{\quad\quad\quad} - 853 = 9144 \quad \begin{array}{r} - \\ \hline \end{array}$$

$$7336 - \underline{\quad\quad\quad} = 2389 \quad \begin{array}{r} 1422 \\ - \\ \hline \end{array}$$

- (7) **Multiplying** whole numbers.

$$\begin{array}{r} 982 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 745 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 806 \\ \times 37 \\ \hline \end{array}$$

- (8) **Dividing** large numbers using 'tidy' numbers.

Example: $215 \div 5 = (200 \div 5) + (15 \div 5) = 20 + 3 = 23$

$$424 \div 8 = (\underline{\quad} \div \underline{\quad}) + (\underline{\quad} \div \underline{\quad})$$

$$= \underline{\quad} + \underline{\quad} = \underline{\quad}$$

Working Space

- (1) **Skip counting in 9's, write the number that comes after ...**



81, _____ 27, _____ 45, _____

- (2) **Round these numbers to the nearest 10th and then work out an estimated answer.**

$$36.72 + 9.48 = \underline{\quad} + \underline{\quad} = \underline{\quad}$$

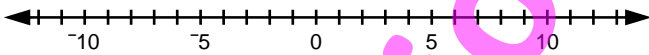
$$94.56 - 7.82 = \underline{\quad} - \underline{\quad} = \underline{\quad}$$

- (3) **Dividing by 10, 100 or 1000.**

$$9.1 \div 10 = \underline{\quad} \quad 3.3 \div 100 = \underline{\quad}$$

$$5.6 \div 100 = \underline{\quad} \quad 7.4 \div 1000 = \underline{\quad}$$

- (4) **Add these positive and negative numbers.**



$$-6 + 12 = \underline{\quad} \quad -12 + 9 = \underline{\quad}$$

$$10 + -9 = \underline{\quad} \quad 8 + -11 = \underline{\quad}$$



- (5) **Adding decimals.**

$$\begin{array}{r} 53.31 \\ 7.9 + 65.48 + 305.32 = \underline{\quad} \\ 39.85 + 247.91 + 2.6 = \underline{\quad} \\ 142.6 + 7.8 + 69.3 = \underline{\quad} \end{array}$$

53.31

5.90

533.14

+ 12.16

- (6) **Subtracting decimals.**

$$\begin{array}{r} 548.41 - 9.25 = \underline{\quad} \\ 82.746 - 6.31 = \underline{\quad} \\ 785.00 - 323.64 = \underline{\quad} \end{array}$$

3884.1

- 695.7

- (7) **Multiplying large numbers using 'tidy' numbers.**

Example: $304 \times 3 = (300 \times 3) + (4 \times 3) = 900 + 12 = 912$

$$\begin{array}{l} 709 \times 6 = (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad}) \\ = \underline{\quad} + \underline{\quad} = \underline{\quad} \end{array}$$

- (8) **Dividing decimals.**

$$4 \overline{) 3.44}$$

$$7 \overline{) 24.22}$$

$$5 \overline{) 78.5}$$

$$9 \overline{) 6.048}$$

Working Space

- (1) Write these decimals as
- number words**
- .

19.024
_____63.172

- (2) What is the
- place value**
- of the
- BOLD**
- digit and what does it mean?

Example: In 4.52 the place value is $\frac{1}{10}$'s and it means $\frac{5}{10}$.

$5.18 = \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \quad 9.52 = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

$2.54 = \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \quad 7.43 = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

- (3) Convert these
- mixed numbers**
- to
- improper fractions**
- .
- Example:*
- $4\frac{2}{3} = \frac{14}{3}$

$3\frac{4}{5} = \underline{\hspace{1cm}} \quad 6\frac{1}{7} = \underline{\hspace{1cm}}$

$4\frac{3}{8} = \underline{\hspace{1cm}} \quad 5\frac{4}{9} = \underline{\hspace{1cm}}$



- (4) Convert these
- fractions**
- to
- percentages**
- .

$\frac{1}{2} = \underline{\hspace{1cm}} \quad \frac{9}{10} = \underline{\hspace{1cm}} \quad \frac{2}{5} = \underline{\hspace{1cm}}$

$\frac{7}{100} = \underline{\hspace{1cm}} \quad \frac{1}{4} = \underline{\hspace{1cm}} \quad \frac{3}{4} = \underline{\hspace{1cm}}$

- (5)
- Adding**
- decimals.

	31.8
$31.6 + 342.2 + 6.75 = \underline{\hspace{2cm}}$	5152.7
$417.2 + \underline{\hspace{1cm}} + 5.45 = 721.76$	7.5
$3.93 + 64.8 + \underline{\hspace{1cm}} = 203.45$	+ 347.9

- (6)
- Subtracting**
- large numbers.

$925.43 - \underline{\hspace{1cm}} = 781.48$	739.13
$\underline{\hspace{1cm}} - 35.12 = 634.92$	-
$1298.3 - \underline{\hspace{1cm}} = 526.78$	234.49

- (7)
- Multiplying**
- decimals.

	5.74
$6.78 \times 5 = \underline{\hspace{1cm}}$	$43.6 \times 9.2 = \underline{\hspace{1cm}}$
$\underline{\hspace{1cm}} \times 8 = \underline{\hspace{1cm}}$	

- (8)
- Dividing**
- large numbers using multiples of 10.

Example: $145 \div 5 = (100 \div 5) + (45 \div 5) = 20 + 9 = 29$

$$963 \div 9 = (\underline{\hspace{1cm}} \div \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \div \underline{\hspace{1cm}})$$

$$= \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

Working Space

- (1) Write in the missing numbers as you skip count in 8's.



8, _____, _____, 32, _____, _____, _____,
 _____, 72, _____, _____, _____, 104, 112, 120

- (2) Round these numbers to the nearest 10 or 100 and then work out an estimated answer.

$$68 + 45 + 129 = \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$986 - 412 = \underline{\quad} - \underline{\quad} = \underline{\quad}$$

- (3) Find the square root of these numbers.

Example: $\sqrt{9} = 3$ as $3 \times 3 = 9$

$$\sqrt{121} = \underline{\quad} \qquad \sqrt{81} = \underline{\quad}$$

$$\sqrt{25} = \underline{\quad} \qquad \sqrt{144} = \underline{\quad}$$

- (4) Convert these percentages to decimals.

$$50\% = \underline{\quad} \qquad 25\% = \underline{\quad} \qquad 90\% = \underline{\quad}$$

$$75\% = \underline{\quad} \qquad 47\% = \underline{\quad} \qquad 5\% = \underline{\quad}$$

- (5) Order of operations.

BEDMAS

$$18 - 2 \times 3 + 7 = \underline{\quad} \qquad 24 \div 8 + 5 \times 4 = \underline{\quad}$$

$$9 + 21 \div 7 - 5 = \underline{\quad} \qquad 9 \times 5 - 12 \div 4 = \underline{\quad}$$

$$14 + 7 \times 4 - 19 = \underline{\quad} \qquad 17 - 8 \times 5 \div 4 = \underline{\quad}$$

Add and subtract these numbers.

$$(6) \quad 463 + 115 = \underline{\quad} \qquad (11) \quad 794 - 482 = \underline{\quad}$$

$$(7) \quad 479 + 209 = \underline{\quad} \qquad (12) \quad 605 - 398 = \underline{\quad}$$

$$(8) \quad 175 + 392 = \underline{\quad} \qquad (13) \quad 568 - 382 = \underline{\quad}$$

$$(9) \quad \underline{\quad} + 464 = 713 \qquad (14) \quad 722 - \underline{\quad} = 158$$

$$(10) \quad 302 + \underline{\quad} = 986 \qquad (15) \quad \underline{\quad} - 396 = 241$$

Multiplying and dividing in 4's, 6's, 7's, 8's & 9's.

$$(16) \quad 4 \times 4 = \underline{\quad} \qquad (21) \quad 24 \div 4 = \underline{\quad}$$

$$(17) \quad 4 \times 6 = \underline{\quad} \qquad (22) \quad 54 \div 6 = \underline{\quad}$$

$$(18) \quad 7 \times 9 = \underline{\quad} \qquad (23) \quad 49 \div 7 = \underline{\quad}$$

$$(19) \quad 8 \times \underline{\quad} = 56 \qquad (24) \quad 64 \div \underline{\quad} = 8$$

$$(20) \quad \underline{\quad} \times 9 = 72 \qquad (25) \quad \underline{\quad} \div 9 = 6$$

Working Space

- (1) Write these numbers in order from smallest to largest.



4.25
0.45
495
0.046
46.6

_____ , _____ , _____ , _____ , _____

Working Space

- (2) Find the square of these numbers.

Example: $3^2 = 3 \times 3 = 9$

$$9^2 = \underline{\hspace{2cm}} \quad 6^2 = \underline{\hspace{2cm}}$$

$$20^2 = \underline{\hspace{2cm}} \quad 15^2 = \underline{\hspace{2cm}}$$

- (3) Convert these percentages to fractions.

$$60\% = \underline{\hspace{2cm}} \quad 50\% = \underline{\hspace{2cm}} \quad 75\% = \underline{\hspace{2cm}}$$

$$25\% = \underline{\hspace{2cm}} \quad 6\% = \underline{\hspace{2cm}} \quad 39\% = \underline{\hspace{2cm}}$$

- (4) Multiplying by 10, 100 or 1000.

$$3.9 \times 10 = \underline{\hspace{2cm}} \quad 7.2 \times 1000 = \underline{\hspace{2cm}}$$

$$5.4 \times 10000 = \underline{\hspace{2cm}} \quad 8.6 \times 100 = \underline{\hspace{2cm}}$$

- (5) Adding large numbers.

$$\begin{array}{r} 9304 + 406 + 83 = \underline{\hspace{2cm}} \\ 494 + 54 + 2387 = \underline{\hspace{2cm}} \\ 59 + 4186 + 943 = \underline{\hspace{2cm}} \end{array}$$

3418

28

52910

+ 384

- (6) Subtracting large numbers.

$$\begin{array}{r} 3162 - 294 = \underline{\hspace{2cm}} \\ 57827 - 8584 = \underline{\hspace{2cm}} \\ 29862 - 439 = \underline{\hspace{2cm}} \end{array}$$

23895

- 728

- (7) Multiplying large numbers using place value.

Example: $231 \times 3 = (200 \times 3) + (30 \times 3) + (1 \times 3) = 600 + 90 + 3 = 693$

$$\begin{aligned} 409 \times 8 &= (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) \\ &= \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \end{aligned}$$

- (8) Dividing large numbers with remainders.

$$6 \overline{) 592}$$

$$7 \overline{) 2398}$$

$$4 \overline{) 791}$$

$$9 \overline{) 4607}$$

- (1) **Skip counting in 7's, write the number that comes after ...**



$$21, \underline{\quad\quad} \quad 56, \underline{\quad\quad} \quad 84, \underline{\quad\quad}$$

- (2) **Dividing by 10, 100 or 1000.**

$$3.9 \div 10000 = \underline{\quad\quad\quad} \quad 4.1 \div 10 = \underline{\quad\quad\quad}$$

$$5.8 \div 100 = \underline{\quad\quad\quad} \quad 7.6 \div 1000 = \underline{\quad\quad\quad}$$

- (3) **Find each fraction of these decimals.**

$$\frac{3}{4} \text{ of } 4.80 = \underline{\quad\quad\quad} \quad \frac{2}{3} \text{ of } 1.80 = \underline{\quad\quad\quad}$$

$$\frac{3}{5} \text{ of } 6.15 = \underline{\quad\quad\quad} \quad \frac{5}{8} \text{ of } 5.60 = \underline{\quad\quad\quad}$$

- (4) **Convert these decimals to percentages.**

$$0.06 = \underline{\quad\quad\%} \quad 0.43 = \underline{\quad\quad\%} \quad 0.75 = \underline{\quad\quad\%}$$

$$0.3 = \underline{\quad\quad\%} \quad 0.25 = \underline{\quad\quad\%} \quad 1.5 = \underline{\quad\quad\%}$$

- (5) **Adding large numbers.**

$$\begin{array}{r} 5936 + 589 + \underline{\quad\quad\quad} = 6597 \\ 2475 + \underline{\quad\quad\quad} + 769 = 6045 \\ 54 + 2394 + \underline{\quad\quad\quad} = 3213 \end{array}$$

$$\begin{array}{r} 6581 \\ 35 \\ 47207 \\ + 398 \\ \hline \end{array}$$

- (6) **Subtracting large numbers.**

$$\begin{array}{r} 1473 - \underline{\quad\quad\quad} = 719 \\ \underline{\quad\quad\quad} - 6438 = 50936 \\ 26417 - \underline{\quad\quad\quad} = 21857 \end{array}$$

$$\begin{array}{r} 18835 \\ - \\ \hline 9379 \end{array}$$

- (7) **Multiplying whole numbers.**

$$\begin{array}{r} 238 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 517 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 6051 \\ \times 27 \\ \hline \end{array}$$

- (8) **Dividing large numbers using multiples of 10.**

Example: $185 \div 5 = (200 \div 5) - (15 \div 5) = 20 - 3 = 17$

$$873 \div 9 = (\underline{\quad\quad} \div \underline{\quad\quad}) - (\underline{\quad\quad} \div \underline{\quad\quad})$$

$$= \underline{\quad\quad} - \underline{\quad\quad} = \underline{\quad\quad}$$

Working Space

(1) **Order of operations.****BEDMAS**

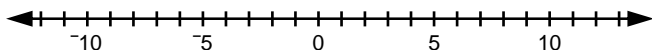
Working Space

$39 + 63 \div 7 = \underline{\hspace{2cm}}$

$4 \times 9 + 18 = \underline{\hspace{2cm}}$

$120 \div 6 + 14 = \underline{\hspace{2cm}}$

$64 - 5 \times 8 = \underline{\hspace{2cm}}$

(2) **Add these positive and negative numbers.**

$-8 + 12 = \underline{\hspace{2cm}}$

$-11 + 9 = \underline{\hspace{2cm}}$

$11 + -13 = \underline{\hspace{2cm}}$



$8 + -12 = \underline{\hspace{2cm}}$

(3) What is the **place value** of the **BOLD** digit and what does it mean?*Example: In 452 the place value is 10's and it means 50.*

$952 = \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \quad 742 = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

$365 = \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \quad 610 = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

(4) **Find the percentage** of these numbers.

$25\% \text{ of } 200 = \underline{\hspace{2cm}} \quad 40\% \text{ of } 120 = \underline{\hspace{2cm}}$

$5\% \text{ of } 60 = \underline{\hspace{2cm}} \quad 33\frac{1}{3}\% \text{ of } 90 = \underline{\hspace{2cm}}$

(5) **Adding decimals.**

$144.3 + 7.32 + 1.3 = \underline{\hspace{2cm}}$

$4.71 + 26 + 853.4 = \underline{\hspace{2cm}}$

$7.2 + 94.4 + 4.124 = \underline{\hspace{2cm}}$

462.52

0.63

3109.36

+ 45.12

(6) **Subtracting decimals.**

$129.8 - 5.3 = \underline{\hspace{2cm}}$

564.7

$134.27 - 96.5 = \underline{\hspace{2cm}}$

- 48.2

$2738.5 - 36.21 = \underline{\hspace{2cm}}$

(7) **Multiplying large numbers using 'tidy' numbers.***Example: $296 \times 3 = (300 \times 3) - (4 \times 3) = 900 - 12 = 888$*

$855 \times 9 = (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) - (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}})$

$= \underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

(8) **Dividing decimals with remainders.**

$5 \overline{) 6.48}$

$6 \overline{) 96.14}$

$3 \overline{) 87.5}$

$8 \overline{) 7.493}$

- (1) **Skip counting in 6's, write the number that comes before ...**



_____, 18 _____, 72 _____, 54

- (2) **Write two smaller equivalent fractions for each fraction given.**



$$\frac{24}{36} = \frac{\quad}{\quad} = \frac{\quad}{\quad} \quad \frac{28}{56} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

- (3) **Find the percentage of these decimals.**

$$70\% \text{ of } 5.6 = \underline{\quad\quad\quad} \quad 66\frac{2}{3}\% \text{ of } 8.1 = \underline{\quad\quad\quad}$$

$$33\frac{1}{3}\% \text{ of } 7.20 = \underline{\quad\quad\quad} \quad 25\% \text{ of } 10.8 = \underline{\quad\quad\quad}$$

- (4) **Convert these fractions to percentages.**

$$\frac{1}{2} = \underline{\quad\quad\quad} \quad \frac{4}{5} = \underline{\quad\quad\quad} \quad \frac{1}{4} = \underline{\quad\quad\quad}$$

$$\frac{7}{10} = \underline{\quad\quad\quad} \quad \frac{3}{4} = \underline{\quad\quad\quad} \quad \frac{9}{100} = \underline{\quad\quad\quad}$$

- (5) **Adding decimals.**

$$46.2 + 41 + \underline{\quad\quad\quad} = 89.983$$

$$5.53 + \underline{\quad\quad\quad} + 47 = 314.2$$

$$41 + 9.27 + \underline{\quad\quad\quad} = 176.0$$

$$167.5$$

$$8.1$$

$$3252.3$$

$$+ 42.6$$

- (6) **Subtracting large numbers.**

$$32.86 - \underline{\quad\quad\quad} = 2.516$$

$$\underline{\quad\quad\quad} - 26.08 = 97.4$$

$$2157.3 - \underline{\quad\quad\quad} = 19.706$$

$$155.39$$

$$-$$

$$63.51$$

- (7) **Multiplying decimals.**

$$4.89$$

$$\times 0.5$$

$$23.7$$

$$\times 0.06$$

$$0.589$$

$$\times 4.8$$

- (8) **Dividing large numbers using 'tidy' numbers.**

Example: $220 \div 5 = (200 \div 5) + (20 \div 5) = 20 + 4 = 24$

$$464 \div 8 = (\underline{\quad\quad} \div \underline{\quad\quad}) + (\underline{\quad\quad} \div \underline{\quad\quad})$$

$$= \underline{\quad\quad\quad} + \underline{\quad\quad\quad} = \underline{\quad\quad\quad}$$

Working Space

- (1) Solve these equations with mixed number answers. Example: $h = 3\frac{4}{7}$



$$6a + 53 = 87 \quad a = \underline{\hspace{2cm}}$$

$$7b - 43 = 59 \quad b = \underline{\hspace{2cm}}$$

- (2) Find the square root of these numbers.

Example: $\sqrt{9} = 3$ as $3 \times 3 = 9$

$$\sqrt{49} = \underline{\hspace{2cm}} \quad \sqrt{16} = \underline{\hspace{2cm}}$$

$$\sqrt{81} = \underline{\hspace{2cm}} \quad \sqrt{144} = \underline{\hspace{2cm}}$$

- (3) Add +, -, × or ÷ to make each statement true. Remember ...

BEDMAS

$$2 _ 3 _ 7 = 13 \quad 25 _ 18 _ 6 = 22$$

$$24 _ 3 _ 6 = 2 \quad 37 _ 4 _ 8 = 5$$

- (4) Convert these improper fractions to mixed numbers. Example: $\frac{11}{4} = 2\frac{3}{4}$

$$\frac{19}{5} = \underline{\hspace{2cm}}$$

$$\frac{39}{6} = \underline{\hspace{2cm}}$$

$$\frac{71}{8} = \underline{\hspace{2cm}}$$

$$\frac{67}{9} = \underline{\hspace{2cm}}$$



- (5) Order of operations.

BEDMAS

$$39 - 4 \times 5 + 8 = \underline{\hspace{2cm}} \quad 45 \div 5 + 7 \times 4 = \underline{\hspace{2cm}}$$

$$11 + 36 \div 9 - 7 = \underline{\hspace{2cm}} \quad 9 \times 5 - 12 \div 4 = \underline{\hspace{2cm}}$$

$$11 + 6 \times 8 - 37 = \underline{\hspace{2cm}} \quad 7 - 6 \times 8 \div 12 = \underline{\hspace{2cm}}$$

Add and subtract these numbers.

$$(6) \quad 237 + 412 = \underline{\hspace{2cm}} \quad (11) \quad 789 - 224 = \underline{\hspace{2cm}}$$

$$(7) \quad 278 + 612 = \underline{\hspace{2cm}} \quad (12) \quad 760 - 547 = \underline{\hspace{2cm}}$$

$$(8) \quad 166 + 492 = \underline{\hspace{2cm}} \quad (13) \quad 718 - 564 = \underline{\hspace{2cm}}$$

$$(9) \quad \underline{\hspace{2cm}} + 348 = 921 \quad (14) \quad 834 - \underline{\hspace{2cm}} = 547$$

$$(10) \quad 389 + \underline{\hspace{2cm}} = 902 \quad (15) \quad \underline{\hspace{2cm}} - 567 = 384$$

Multiplying and dividing in 4's, 6's, 7's, 8's & 9's.

$$(16) \quad 4 \times 6 = \underline{\hspace{2cm}} \quad (21) \quad 36 \div 4 = \underline{\hspace{2cm}}$$

$$(17) \quad 9 \times 6 = \underline{\hspace{2cm}} \quad (22) \quad 42 \div 6 = \underline{\hspace{2cm}}$$

$$(18) \quad 7 \times 7 = \underline{\hspace{2cm}} \quad (23) \quad 35 \div 7 = \underline{\hspace{2cm}}$$

$$(19) \quad 8 \times \underline{\hspace{2cm}} = 64 \quad (24) \quad 64 \div \underline{\hspace{2cm}} = 8$$

$$(20) \quad \underline{\hspace{2cm}} \times 9 = 54 \quad (25) \quad \underline{\hspace{2cm}} \div 9 = 6$$

Working Space

- (1) **Skip counting in 9's, write the number that is between ...**



$$18 \quad \underline{\quad} \quad 36, \quad 72 \quad \underline{\quad} \quad 90, \quad 99 \quad \underline{\quad} \quad 117$$

- (2) What is the **place value** of the **BOLD** digit and what does it mean?

Example: In 4.52 the place value is $\frac{1}{10}$'s and it means $\frac{5}{10}$.

$$5.\mathbf{9}2 = \underline{\quad} = \underline{\quad} \quad 6.\mathbf{1}2 = \underline{\quad} = \underline{\quad}$$

$$8.\mathbf{5}3 = \underline{\quad} = \underline{\quad} \quad 7.\mathbf{4}5 = \underline{\quad} = \underline{\quad}$$

- (3) **Dividing by 10, 100 or 1000.**

$$92.1 \div 1000 = \underline{\quad} \quad 9.34 \div 10 = \underline{\quad}$$

$$115.8 \div 100 = \underline{\quad} \quad 6.4 \div 1000 = \underline{\quad}$$

- (4) **Order of operations.**

BEDMAS

$$2 \times 4 + 72 \div 8 = \underline{\quad} \quad 36 \div 9 + 3 \times 8 = \underline{\quad}$$

$$3(48 \div 6 + 7) = \underline{\quad} \quad 9(12 - 5 \times 2) = \underline{\quad}$$

- (5) **Adding large numbers.**

$$9309 + 63 + 808 = \underline{\quad} \quad \begin{array}{r} 315 \\ 36825 \end{array}$$

$$2631 + 38274 + 699 = \underline{\quad} \quad \begin{array}{r} 457 \\ + 1780 \end{array}$$

$$5205 + 678 + 14267 = \underline{\quad} \quad \underline{\quad}$$

- (6) **Subtracting large numbers.**

$$3084 - 447 = \underline{\quad} \quad \begin{array}{r} 54806 \\ - 7385 \end{array}$$

$$45780 - 7372 = \underline{\quad} \quad \underline{\quad}$$

$$156273 - 5348 = \underline{\quad} \quad \underline{\quad}$$

- (7) **Multiplying large numbers using place value.**

Example: $231 \times 3 = (200 \times 3) + (30 \times 3) + (1 \times 3) = 600 + 90 + 3 = 693$

$$453 \times 7 = (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad})$$

$$= \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

- (8) **Dividing large numbers with remainders.**

$$\begin{array}{r} \underline{\quad} \\ 7 \overline{) 953} \end{array}$$

$$\begin{array}{r} \underline{\quad} \\ 5 \overline{) 6581} \end{array}$$

$$\begin{array}{r} \underline{\quad} \\ 4 \overline{) 719} \end{array}$$

$$\begin{array}{r} \underline{\quad} \\ 9 \overline{) 7068} \end{array}$$

Working Space

- (1) Find the percentage of these numbers.

25% of 160 = _____ $66\frac{2}{3}\%$ of 480 = _____

$33\frac{1}{3}\%$ of 360 = _____ 75% of 240 = _____

- (2) Solve these equations with mixed number answers. Example:
- $h = 3\frac{4}{7}$



$9d + 48 = 97$ $d =$ _____

$8k - 53 = 29$ $k =$ _____

- (3) Multiplying by 10, 100 or 1000.

$0.14 \times 1000 =$ _____ $123.8 \times 10 =$ _____

$9.24 \times 100 =$ _____ $0.74 \times 1000 =$ _____

- (4) Convert these decimals to fractions.

0.06 = _____ 0.36 = _____ 0.25 = _____

0.75 = _____ 0.5 = _____ 0.8 = _____

- (5) Adding large numbers.

	3180
_____ + 254 + 1826 = 15751	351
8214 + _____ + 935 = 67509	24847
1686 + 4459 + _____ = 23347	+ 93

- (6) Subtracting large numbers.

3 578 - _____ = 2849	12385
_____ - 4872 = 27967	-
29167 - _____ = 25691	_____
	6789

- (7) Multiplying whole numbers.

4108	2945	1673
x 7	x 6	x 39
_____	_____	_____
_____	_____	_____

- (8) Dividing large numbers using 'tidy' numbers.

Example: $195 \div 5 = (200 \div 5) - (5 \div 5) = 20 - 1 = 19$

$665 \div 7 = (\text{_____} \div \text{_____}) - (\text{_____} \div \text{_____})$

$= \text{_____} - \text{_____} = \text{_____}$

Working Space

- (1) **Skip counting in 8's, write the number that comes after ...**



$$64, \underline{\hspace{2cm}} \quad 72, \underline{\hspace{2cm}} \quad 32, \underline{\hspace{2cm}}$$

- (2) **Dividing by 10, 100 or 1000.**

$$0.39 \div 100 = \underline{\hspace{2cm}} \quad 34.1 \div 10 = \underline{\hspace{2cm}}$$

$$215.8 \div 1000 = \underline{\hspace{2cm}} \quad 12.6 \div 1000 = \underline{\hspace{2cm}}$$

- (3) **Convert these fractions to decimals.**

$$\frac{1}{2} = \underline{\hspace{2cm}} \quad \frac{4}{5} = \underline{\hspace{2cm}} \quad \frac{1}{4} = \underline{\hspace{2cm}}$$

$$\frac{9}{100} = \underline{\hspace{2cm}} \quad \frac{3}{4} = \underline{\hspace{2cm}} \quad \frac{3}{8} = \underline{\hspace{2cm}}$$

- (4) **Order of operations.**

BEDMAS

$$9 \times 7 - 64 \div 8 = \underline{\hspace{2cm}} \quad 56 \div 7 + 5 \times 4 = \underline{\hspace{2cm}}$$

$$4(54 \div 6 - 7) = \underline{\hspace{2cm}} \quad 3(10 + 2 \times 6) = \underline{\hspace{2cm}}$$

- (5) **Adding decimals.**

$$\begin{array}{r} 72.6 + 4.853 + 42 = \underline{\hspace{2cm}} \\ 4.7 + 223 + 34.98 = \underline{\hspace{2cm}} \\ 6941 + 8.6 + 1.19 = \underline{\hspace{2cm}} \end{array}$$

4.37

129.80

0.22

+ 85.08

- (6) **Subtracting decimals.**

$$14.27 - 6.71 = \underline{\hspace{2cm}} \quad 1652.5$$

$$420.36 - 87.9 = \underline{\hspace{2cm}} \quad - 94.5$$

$$5708.5 - 96.26 = \underline{\hspace{2cm}}$$

- (7) **Multiplying large numbers using 'tidy' numbers.**

Example: $296 \times 3 = (300 \times 3) - (4 \times 3) = 900 - 12 = 888$

$$475 \times 5 = (\underline{\hspace{2cm}} \times \underline{\hspace{2cm}}) - (\underline{\hspace{2cm}} \times \underline{\hspace{2cm}})$$

$$= \underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

- (8) **Dividing decimals with remainders.**

$$6 \overline{) 56.1}$$

$$9 \overline{) 5.708}$$

$$4 \overline{) 8.93}$$

$$7 \overline{) 82.43}$$

Working Space

- (1)
- Multiplying**
- by 10, 100 or 1000.

$12.3 \times 100 = \underline{\hspace{2cm}}$ $1.9 \times 10000 = \underline{\hspace{2cm}}$

$7.6 \times 1000 = \underline{\hspace{2cm}}$ $0.06 \times 10 = \underline{\hspace{2cm}}$

- (2)
- Find the percentage**
- of these decimals.

$20\% \text{ of } 4.50 = \underline{\hspace{2cm}}$ $75\% \text{ of } 12.8 = \underline{\hspace{2cm}}$

$66\frac{2}{3}\% \text{ of } 3.90 = \underline{\hspace{2cm}}$ $5\% \text{ of } 90.0 = \underline{\hspace{2cm}}$

- (3)
- Convert these mixed numbers to improper fractions.**
- Example: $4\frac{2}{3} = \frac{14}{3}$*

$7\frac{2}{9} = \underline{\hspace{2cm}}$ $4\frac{5}{8} = \underline{\hspace{2cm}}$

$9\frac{6}{7} = \underline{\hspace{2cm}}$ $6\frac{3}{10} = \underline{\hspace{2cm}}$



- (4)
- Add +, -, × or ÷**
- to make each statement true. Remember
- BEDMAS**

$5 \underline{\hspace{0.5cm}} 4 \underline{\hspace{0.5cm}} 9 = 29$ $40 \underline{\hspace{0.5cm}} 3 \underline{\hspace{0.5cm}} 6 = 22$

$36 \underline{\hspace{0.5cm}} 9 \underline{\hspace{0.5cm}} 7 = 11$ $13 \underline{\hspace{0.5cm}} 28 \underline{\hspace{0.5cm}} 7 = 17$

- (5)
- Adding**
- decimals.

$\underline{\hspace{2cm}} + 46.09 + 97 = 204.39$	54.1
$17 + \underline{\hspace{2cm}} + 1.367 = 39.01$	394.9
$23.58 + 8.9 + \underline{\hspace{2cm}} = 304.9$	7.3
	$+ 26.0$

- (6)
- Subtracting**
- decimals.

$723.8 - \underline{\hspace{2cm}} = 71.53$	439.58
$\underline{\hspace{2cm}} - 64.9 = 326.3$	$-$
$510.94 - \underline{\hspace{2cm}} = 312.7$	97.99

- (7)
- Multiplying**
- decimals.

2.85	61.54	0.479
$\times 0.4$	$\times 0.07$	$\times 0.59$
$\underline{\hspace{2cm}}$	$\underline{\hspace{2cm}}$	$\underline{\hspace{2cm}}$
$\underline{\hspace{2cm}}$	$\underline{\hspace{2cm}}$	$\underline{\hspace{2cm}}$

- (8)
- Dividing**
- large numbers using multiples of 10.

Example: $145 \div 5 = (100 \div 5) + (45 \div 5) = 20 + 9 = 29$

$927 \div 9 = (\underline{\hspace{1cm}} \div \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \div \underline{\hspace{1cm}})$

$= \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

Working Space

Number Knowledge Worksheet Answers

1			
(1)	3, <u>6</u> , <u>9</u> , <u>12</u> , <u>15</u> , 18, <u>21</u> , <u>24</u> , 27, <u>30</u> , <u>33</u> , <u>36</u> , 39, <u>42</u> , 45, 48, 51		
(2)	65	<u>70</u>	
	40	<u>45</u>	
	105	<u>110</u>	
(3)	838, 27.13, 2.93, 0.429, 0.045		
(4)	2945 2616 4050		
(5)	730	590	
	240	680	
(6)	578	(11)	115
(7)	688	(12)	479
(8)	567	(13)	392
(9)	249	(14)	464
(10)	419	(15)	722
(16)	30	(21)	7
(17)	20	(22)	8
(18)	54	(23)	3
(19)	1	(24)	5
(20)	9	(25)	80

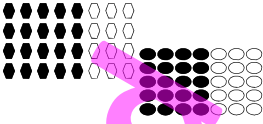
5			
(1)	<u>9</u> , 18, <u>27</u> , <u>36</u> , <u>45</u> , <u>54</u> , 63, <u>72</u> , 81, <u>90</u> , <u>99</u> , <u>108</u> , <u>117</u> , <u>126</u> , 135		
(2)	<u>15</u>	18	
	<u>33</u>	36	
	<u>57</u>	60	
(3)	$\frac{1}{10}$'s = $\frac{4}{10}$ $\frac{1}{100}$'s = $\frac{8}{100}$ $\frac{1}{100}$'s = $\frac{5}{100}$ $\frac{1}{10}$'s = $\frac{3}{10}$		
(4)	95	180	
	185	90	
(5)	300	1300	
	800	1900	
(6)	794	(11)	312
(7)	605	(12)	207
(8)	568	(13)	186
(9)	158	(14)	564
(10)	318	(15)	633
(16)	12	(21)	2
(17)	30	(22)	7
(18)	9	(23)	8
(19)	9	(24)	3
(20)	2	(25)	40

2			
(1)	75, <u>70</u> , <u>65</u> , <u>60</u> , <u>55</u> , 50, <u>45</u> , 40, <u>35</u> , <u>30</u> , <u>25</u> , <u>20</u> , 15, 10, <u>5</u>		
(2)	<u>49</u>	56	
	<u>28</u>	35	
	<u>84</u>	91	
(3)	10's = 30 1000's = 7000 1's = 2 100's = 900		
(4)	$\frac{16}{32}$ or $\frac{1}{2}$ $\frac{15}{35}$ or $\frac{3}{7}$		
(5)	2	5	
	2	3	
(6)	578	(11)	342
(7)	934	(12)	318
(8)	857	(13)	455
(9)	287	(14)	463
(10)	207	(15)	883
(16)	15	(21)	1
(17)	50	(22)	9
(18)	36	(23)	2
(19)	6	(24)	7
(20)	1	(25)	64

6															
(1)	<u>4</u> , <u>8</u> , 12, <u>16</u> , <u>20</u> , <u>24</u> , 28, 32, <u>36</u> , <u>40</u> , 44, <u>48</u> , <u>52</u> , 56, 60														
(2)	48	<u>54</u>	60												
	90	<u>96</u>	102												
	24	<u>30</u>	36												
(3)	<table border="1" style="font-size: small;"> <thead> <tr> <th>fraction</th> <th>decimal</th> <th>percentage</th> </tr> </thead> <tbody> <tr> <td>$\frac{1}{4}$</td> <td>\leftrightarrow 0.25</td> <td>\leftrightarrow 25%</td> </tr> <tr> <td>$\frac{1}{5}$</td> <td>\leftrightarrow 0.2</td> <td>\leftrightarrow 20%</td> </tr> <tr> <td>$\frac{3}{4}$</td> <td>\leftrightarrow 0.75</td> <td>\leftrightarrow 75%</td> </tr> </tbody> </table>			fraction	decimal	percentage	$\frac{1}{4}$	\leftrightarrow 0.25	\leftrightarrow 25%	$\frac{1}{5}$	\leftrightarrow 0.2	\leftrightarrow 20%	$\frac{3}{4}$	\leftrightarrow 0.75	\leftrightarrow 75%
fraction	decimal	percentage													
$\frac{1}{4}$	\leftrightarrow 0.25	\leftrightarrow 25%													
$\frac{1}{5}$	\leftrightarrow 0.2	\leftrightarrow 20%													
$\frac{3}{4}$	\leftrightarrow 0.75	\leftrightarrow 75%													
(4)	1.2	3.6													
	1.3	4													
(5)	$(80 \times 8) + (5 \times 8)$ $= 640 + 40 = 680$														
(6)	968	(11)	437												
(7)	580	(12)	407												
(8)	738	(13)	177												
(9)	695	(14)	279												
(10)	213	(15)	921												
(16)	24	(21)	2												
(17)	7	(22)	7												
(18)	54	(23)	8												
(19)	2	(24)	3												
(20)	8	(25)	16												

3																			
(1)	7, <u>14</u> , <u>21</u> , 28, <u>35</u> , <u>42</u> , <u>49</u> , 56, <u>63</u> , 70, <u>77</u> , <u>84</u> , 91, <u>98</u> , <u>105</u>																		
(2)	56	<u>64</u>	72																
	24	<u>32</u>	40																
	88	<u>96</u>	104																
(3)	40	240																	
	50	300																	
(4)	<table border="1" style="font-size: small;"> <tbody> <tr> <td>6900</td> <td>9</td> <td>650</td> <td><u>7559</u></td> </tr> <tr> <td>30</td> <td>250</td> <td>20</td> <td><u>300</u></td> </tr> <tr> <td>820</td> <td>470</td> <td>4100</td> <td><u>5390</u></td> </tr> <tr> <td><u>7750</u></td> <td><u>729</u></td> <td><u>4770</u></td> <td>Total <u>13249</u></td> </tr> </tbody> </table>			6900	9	650	<u>7559</u>	30	250	20	<u>300</u>	820	470	4100	<u>5390</u>	<u>7750</u>	<u>729</u>	<u>4770</u>	Total <u>13249</u>
6900	9	650	<u>7559</u>																
30	250	20	<u>300</u>																
820	470	4100	<u>5390</u>																
<u>7750</u>	<u>729</u>	<u>4770</u>	Total <u>13249</u>																
(5)	$(90 \div 9) + (72 \div 9)$ $= 10 + 8 = 18$																		
(6)	986	(11)	363																
(7)	777	(12)	219																
(8)	637	(13)	664																
(9)	298	(14)	596																
(10)	219	(15)	713																
(16)	18	(21)	9																
(17)	5	(22)	2																
(18)	81	(23)	7																
(19)	2	(24)	8																
(20)	7	(25)	24																

7			
(1)	90, 84, <u>78</u> , <u>72</u> , <u>66</u> , <u>60</u> , 54, <u>48</u> , <u>42</u> , <u>36</u> , <u>30</u> , 24, <u>18</u> , <u>12</u> , 6		
(2)	<u>49</u>	<u>56</u>	
	<u>77</u>	<u>84</u>	
	<u>28</u>	<u>35</u>	
(3)	0.25	0.7	
	0.75	0.5	
(4)	245	724	
	458	286	
(5)	$90 + 80 + 190 = 360$ $8800 - 4200 = 4600$		
(6)	798	(11)	565
(7)	760	(12)	213
(8)	718	(13)	154
(9)	547	(14)	287
(10)	513	(15)	951
(16)	40	(21)	1
(17)	28	(22)	8
(18)	36	(23)	2
(19)	1	(24)	7
(20)	4	(25)	72

4			
(1)	<u>8</u> , <u>16</u> , 24, <u>32</u> , <u>40</u> , <u>48</u> , <u>56</u> , 64, 72, <u>80</u> , <u>88</u> , <u>96</u> , 104, <u>112</u> , 120		
(2)	81	<u>90</u>	
	45	<u>54</u>	
	<u>108</u>	<u>117</u>	
(3)	9000	3000	
	2000	27000	
(4)			
(5)	$1840 + 1260 = 3100\text{m}$		
(6)	478	(11)	302
(7)	845	(12)	419
(8)	725	(13)	241
(9)	468	(14)	335
(10)	479	(15)	931
(16)	9	(21)	8
(17)	25	(22)	3
(18)	90	(23)	5
(19)	4	(24)	10
(20)	6	(25)	32

8			
(1)	7, <u>14</u> , <u>21</u> , 28, <u>35</u> , <u>42</u> , <u>49</u> , 56, <u>63</u> , <u>70</u> , <u>77</u> , <u>84</u> , 91, <u>98</u> , 105		
(2)	<u>40</u>	48	
	<u>112</u>	120	
	<u>80</u>	88	
(3)	0.89	2.1	
	1.6	1.7	
(4)	50%	75%	
	25%	5%	
(5)	8.8	89.4	
	67.9	109.2	
(6)	589	(11)	265
(7)	670	(12)	355
(8)	734	(13)	592
(9)	465	(14)	387
(10)	278	(15)	974
(16)	16	(21)	8
(17)	42	(22)	3
(18)	6	(23)	5
(19)	9	(24)	10
(20)	10	(25)	8

9			
(1)	8, <u>16</u> , 24, <u>32</u> , <u>40</u> , <u>48</u> , <u>56</u> , <u>64</u> , 72, <u>80</u> , <u>88</u> , 96, <u>104</u> , <u>112</u> , 120		
(2)	36	<u>45</u>	54
	72	<u>81</u>	90
	108	<u>117</u>	126
(3)	0.25		0.8
	0.45		0.75
(4)	339.5	50	673.2
(5)	100		81
	36		144
(6)	649	(11)	216
(7)	890	(12)	513
(8)	658	(13)	182
(9)	573	(14)	567
(10)	355	(15)	852
(16)	20	(21)	7
(17)	70	(22)	9
(18)	24	(23)	3
(19)	6	(24)	5
(20)	5	(25)	56

10			
(1)	135, 126, <u>117</u> , <u>108</u> , <u>99</u> , 90, <u>81</u> , <u>72</u> , <u>63</u> , <u>54</u> , 45, <u>36</u> , <u>27</u> , 18, <u>9</u>		
(2)	36	<u>40</u>	
	72	<u>76</u>	
	48	<u>52</u>	
(3)	7		12
	11		8
(4)	$\frac{9}{10}$		$\frac{1}{4}$
	$\frac{3}{4}$		$\frac{3}{5}$
(5)	5.27		0.369
	63.8		4.38
(6)	739	(11)	412
(7)	902	(12)	278
(8)	936	(13)	492
(9)	384	(14)	348
(10)	407	(15)	834
(16)	12	(21)	9
(17)	35	(22)	2
(18)	60	(23)	7
(19)	4	(24)	8
(20)	3	(25)	48

11															
(1)	9, <u>18</u> , 27, <u>36</u> , <u>45</u> , <u>54</u> , <u>63</u> , 72, <u>81</u> , 90, <u>99</u> , <u>108</u> , <u>117</u> , 126, <u>135</u>														
(2)	590		470												
	120		840												
(3)	$\frac{8}{20}$ or $\frac{2}{5}$														
	$\frac{6}{24}$ or $\frac{1}{4}$														
(4)	<table border="1"> <thead> <tr> <th>fraction</th> <th>decimal</th> <th>percentage</th> </tr> </thead> <tbody> <tr> <td>$\frac{1}{2}$</td> <td>↔ 0.5</td> <td>↔ 50%</td> </tr> <tr> <td>$\frac{1}{4}$</td> <td>↔ 0.25</td> <td>↔ 25%</td> </tr> <tr> <td>$\frac{3}{4}$</td> <td>↔ 0.75</td> <td>↔ 75%</td> </tr> </tbody> </table>			fraction	decimal	percentage	$\frac{1}{2}$	↔ 0.5	↔ 50%	$\frac{1}{4}$	↔ 0.25	↔ 25%	$\frac{3}{4}$	↔ 0.75	↔ 75%
fraction	decimal	percentage													
$\frac{1}{2}$	↔ 0.5	↔ 50%													
$\frac{1}{4}$	↔ 0.25	↔ 25%													
$\frac{3}{4}$	↔ 0.75	↔ 75%													
(5)	25		50												
	3		15												
	57		61												
(6)	798	(11)	216												
(7)	760	(12)	513												
(8)	718	(13)	182												
(9)	547	(14)	567												
(10)	324	(15)	734												
(16)	36	(21)	7												
(17)	42	(22)	5												
(18)	35	(23)	8												
(19)	8	(24)	6												
(20)	6	(25)	36												

12			
(1)	0.09, 0.25, 1.06, 9, 12.04		
(2)	\$2		\$900
	\$30		\$3
(3)	400		900
	400		400
(4)	0.5		0.75
	0.25		0.4
(5)	3888		11763
	1031		4690
(6)	1245		5165
	12462		23764
(7)	$(300 \times 4) + (40 \times 4) + (8 \times 4)$ $= 1200 + 160 + 32$ $= 1392$		
(8)	378		255
	204		671

13			
(1)	24	<u>32</u>	
	64	<u>72</u>	
	72	<u>80</u>	
(2)	$70 + 30 + 200 = 300$ $700 - 500 = 200$		
(3)			
(4)	25%		60%
	30%		75%
(5)	3214		34705
	2830		657
(6)	770		9188
	3582		1867
(7)	2895		2760
	2046		<u>18400</u>
			21160
(8)	$(400 \div 4) + (36 \div 4)$ $= 100 + 9 = 109$		

14			
(1)	72,493		
(2)	4000		6000
	6000		8000
(3)	4		6
	8		3
(4)	16		81
	100		49
(5)	141.94		5674.0
	48.64		155.16
(6)	286.8		31.67
	492.43		254.72
(7)	$(400 \times 5) - (32 \times 5)$ $= 2000 - 160 = 1840$		
(8)	0.56		9.52
	5.9		0.386

15			
(1)	<u>42</u>		49
	<u>14</u>		21
	<u>56</u>		63
(2)	$10\text{'s} = 20$ $100\text{'s} = 900$ $1\text{'s} = 7$ $10\text{'s} = 60$		
(3)	80		360
	300		450
(4)	$\frac{1}{2}$		$\frac{3}{5}$
	$\frac{3}{4}$		$\frac{1}{4}$
(5)	190.26		542.21
	36.7		17.73
(6)	75.2		94.56
	573.74		45.6
(7)	1.245 215.2 58.32 <u>29.050</u> 30.295		
(8)	$(240 \div 8) - (8 \div 8)$ $= 30 - 1 = 29$		

16			
(1)	fifty thousand, eight hundred and six		
(2)	$90 + 60 + 210 = 360$ $800 - 500 = 300$		
(3)	$6\frac{1}{2}$		$5\frac{1}{3}$
	$4\frac{3}{4}$		$5\frac{2}{5}$
(4)	0.5		0.75
	0.8		0.25
(5)	9		2
	23		31
	63		15
(6)	739	(11)	265
(7)	902	(12)	355
(8)	936	(13)	592
(9)	384	(14)	387
(10)	531	(15)	738
(16)	28	(21)	5
(17)	30	(22)	8
(18)	56	(23)	6
(19)	6	(24)	4
(20)	4	(25)	81

17										
(1)	<table border="0"> <tr><td>27</td><td><u>36</u></td><td>45</td></tr> <tr><td>63</td><td><u>72</u></td><td>81</td></tr> <tr><td>81</td><td><u>90</u></td><td>99</td></tr> </table>	27	<u>36</u>	45	63	<u>72</u>	81	81	<u>90</u>	99
27	<u>36</u>	45								
63	<u>72</u>	81								
81	<u>90</u>	99								
(2)	<table border="0"> <tr><td>1.4</td><td>7.9</td></tr> <tr><td>25.7</td><td>36.8</td></tr> </table>	1.4	7.9	25.7	36.8					
1.4	7.9									
25.7	36.8									
(3)	<table border="0"> <tr><td>5c</td><td>40c</td></tr> <tr><td>30c</td><td>8c</td></tr> </table>	5c	40c	30c	8c					
5c	40c									
30c	8c									
(4)	<table border="0"> <tr><td>7</td><td>10</td></tr> <tr><td>8</td><td>12</td></tr> </table>	7	10	8	12					
7	10									
8	12									
(5)	<table border="0"> <tr><td>5621</td><td></td><td></td></tr> <tr><td>3795</td><td></td><td>13947</td></tr> <tr><td>7146</td><td></td><td></td></tr> </table>	5621			3795		13947	7146		
5621										
3795		13947								
7146										
(6)	<table border="0"> <tr><td>855</td><td></td><td></td></tr> <tr><td>23261</td><td></td><td>12680</td></tr> <tr><td>65459</td><td></td><td></td></tr> </table>	855			23261		12680	65459		
855										
23261		12680								
65459										
(7)	<table border="0"> <tr><td>(600x7) + (90x7) + (4x7)</td><td>4452</td></tr> <tr><td>= 4200 + 630 + 28</td><td>51940</td></tr> <tr><td>= 4858</td><td>56392</td></tr> </table>	(600x7) + (90x7) + (4x7)	4452	= 4200 + 630 + 28	51940	= 4858	56392			
(600x7) + (90x7) + (4x7)	4452									
= 4200 + 630 + 28	51940									
= 4858	56392									
(8)	<table border="0"> <tr><td>69</td><td>624</td></tr> <tr><td>89</td><td>537r6</td></tr> </table>	69	624	89	537r6					
69	624									
89	537r6									

18										
(1)	<table border="0"> <tr><td>3.024</td></tr> <tr><td>19.5862</td></tr> </table>	3.024	19.5862							
3.024										
19.5862										
(2)	<table border="0"> <tr><td>$\frac{3}{4} = \frac{6}{8} = \frac{9}{12}$</td></tr> <tr><td>$\frac{2}{3} = \frac{4}{6} = \frac{6}{9}$</td></tr> </table>	$\frac{3}{4} = \frac{6}{8} = \frac{9}{12}$	$\frac{2}{3} = \frac{4}{6} = \frac{6}{9}$							
$\frac{3}{4} = \frac{6}{8} = \frac{9}{12}$										
$\frac{2}{3} = \frac{4}{6} = \frac{6}{9}$										
(3)	<table border="0"> <tr><td>4.09</td><td>8.26</td></tr> <tr><td>61.22</td><td>48.33</td></tr> </table>	4.09	8.26	61.22	48.33					
4.09	8.26									
61.22	48.33									
(4)	<table border="0"> <tr><td>40%</td><td>25%</td></tr> <tr><td>75%</td><td>70%</td></tr> </table>	40%	25%	75%	70%					
40%	25%									
75%	70%									
(5)	<table border="0"> <tr><td>5382</td><td></td><td></td></tr> <tr><td>654</td><td></td><td>4823</td></tr> <tr><td>602</td><td></td><td></td></tr> </table>	5382			654		4823	602		
5382										
654		4823								
602										
(6)	<table border="0"> <tr><td>85</td><td></td><td></td></tr> <tr><td>3912</td><td></td><td>159</td></tr> <tr><td>2963</td><td></td><td></td></tr> </table>	85			3912		159	2963		
85										
3912		159								
2963										
(7)	<table border="0"> <tr><td>1544</td><td>4452</td></tr> <tr><td>2313</td><td>51940</td></tr> <tr><td></td><td>56392</td></tr> </table>	1544	4452	2313	51940		56392			
1544	4452									
2313	51940									
	56392									
(8)	<table border="0"> <tr><td>(900 ÷ 9) + (45 ÷ 9)</td><td></td></tr> <tr><td>= 100 + 5 = 105</td><td></td></tr> </table>	(900 ÷ 9) + (45 ÷ 9)		= 100 + 5 = 105						
(900 ÷ 9) + (45 ÷ 9)										
= 100 + 5 = 105										

19										
(1)	<table border="0"> <tr><td>64</td><td><u>72</u></td></tr> <tr><td>32</td><td><u>40</u></td></tr> <tr><td>88</td><td><u>96</u></td></tr> </table>	64	<u>72</u>	32	<u>40</u>	88	<u>96</u>			
64	<u>72</u>									
32	<u>40</u>									
88	<u>96</u>									
(2)	<table border="0"> <tr><td>27.9 + 6.4 = 34.3</td></tr> <tr><td>9.7 - 6.2 = 3.5</td></tr> </table>	27.9 + 6.4 = 34.3	9.7 - 6.2 = 3.5							
27.9 + 6.4 = 34.3										
9.7 - 6.2 = 3.5										
(3)	<table border="0"> <tr><td>4.2</td><td>1.7</td></tr> <tr><td>3.9</td><td>2.4</td></tr> </table>	4.2	1.7	3.9	2.4					
4.2	1.7									
3.9	2.4									
(4)	<table border="0"> <tr><td>1</td><td>5</td></tr> <tr><td>6</td><td>9</td></tr> </table>	1	5	6	9					
1	5									
6	9									
(5)	<table border="0"> <tr><td>380.19</td><td></td><td></td></tr> <tr><td>454.95</td><td></td><td>386.77</td></tr> <tr><td>26.655</td><td></td><td></td></tr> </table>	380.19			454.95		386.77	26.655		
380.19										
454.95		386.77								
26.655										
(6)	<table border="0"> <tr><td>254.4</td><td></td><td></td></tr> <tr><td>281.38</td><td></td><td>546.21</td></tr> <tr><td>1171.93</td><td></td><td></td></tr> </table>	254.4			281.38		546.21	1171.93		
254.4										
281.38		546.21								
1171.93										
(7)	<table border="0"> <tr><td>(600 x 6) - (12 x 6)</td><td></td></tr> <tr><td>= 3600 - 72 = 3528</td><td></td></tr> </table>	(600 x 6) - (12 x 6)		= 3600 - 72 = 3528						
(600 x 6) - (12 x 6)										
= 3600 - 72 = 3528										
(8)	<table border="0"> <tr><td>0.64</td><td>0.248</td></tr> <tr><td>6.2</td><td>4.17</td></tr> </table>	0.64	0.248	6.2	4.17					
0.64	0.248									
6.2	4.17									

20										
(1)	<table border="0"> <tr><td>four point three zero nine</td></tr> <tr><td>thirteen point zero five eight</td></tr> </table>	four point three zero nine	thirteen point zero five eight							
four point three zero nine										
thirteen point zero five eight										
(2)	<table border="0"> <tr><td>$\frac{1}{10}$'s = $\frac{5}{10}$ $\frac{1}{100}$'s = $\frac{5}{100}$</td></tr> <tr><td>$\frac{1}{100}$'s = $\frac{7}{100}$ $\frac{1}{10}$'s = $\frac{1}{10}$</td></tr> </table>	$\frac{1}{10}$'s = $\frac{5}{10}$ $\frac{1}{100}$'s = $\frac{5}{100}$	$\frac{1}{100}$'s = $\frac{7}{100}$ $\frac{1}{10}$'s = $\frac{1}{10}$							
$\frac{1}{10}$'s = $\frac{5}{10}$ $\frac{1}{100}$'s = $\frac{5}{100}$										
$\frac{1}{100}$'s = $\frac{7}{100}$ $\frac{1}{10}$'s = $\frac{1}{10}$										
(3)	<table border="0"> <tr><td>$\frac{9}{4}$</td><td>$\frac{23}{5}$</td></tr> <tr><td>$\frac{17}{3}$</td><td>$\frac{25}{7}$</td></tr> </table>	$\frac{9}{4}$	$\frac{23}{5}$	$\frac{17}{3}$	$\frac{25}{7}$					
$\frac{9}{4}$	$\frac{23}{5}$									
$\frac{17}{3}$	$\frac{25}{7}$									
(4)	<table border="0"> <tr><td>$\frac{1}{2}$</td><td>$\frac{1}{4}$</td></tr> <tr><td>$\frac{9}{10}$</td><td>$\frac{3}{5}$</td></tr> </table>	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{9}{10}$	$\frac{3}{5}$					
$\frac{1}{2}$	$\frac{1}{4}$									
$\frac{9}{10}$	$\frac{3}{5}$									
(5)	<table border="0"> <tr><td>452.24</td><td></td><td></td></tr> <tr><td>583.60</td><td></td><td>54.71</td></tr> <tr><td>20.28</td><td></td><td></td></tr> </table>	452.24			583.60		54.71	20.28		
452.24										
583.60		54.71								
20.28										
(6)	<table border="0"> <tr><td>72.9</td><td></td><td></td></tr> <tr><td>766.87</td><td></td><td>59.6</td></tr> <tr><td>349.79</td><td></td><td></td></tr> </table>	72.9			766.87		59.6	349.79		
72.9										
766.87		59.6								
349.79										
(7)	<table border="0"> <tr><td>179.0</td><td>48.42</td></tr> <tr><td>15.52</td><td><u>215.20</u></td></tr> <tr><td></td><td>263.62</td></tr> </table>	179.0	48.42	15.52	<u>215.20</u>		263.62			
179.0	48.42									
15.52	<u>215.20</u>									
	263.62									
(8)	<table border="0"> <tr><td>(900 ÷ 9) - (27 ÷ 9)</td><td></td></tr> <tr><td>= 100 - 3 = 97</td><td></td></tr> </table>	(900 ÷ 9) - (27 ÷ 9)		= 100 - 3 = 97						
(900 ÷ 9) - (27 ÷ 9)										
= 100 - 3 = 97										

21							
(1)	<table border="0"> <tr><td>d = 13</td></tr> <tr><td>j = 24</td></tr> </table>	d = 13	j = 24				
d = 13							
j = 24							
(2)	<table border="0"> <tr><td>210</td><td>410</td></tr> <tr><td>680</td><td>940</td></tr> </table>	210	410	680	940		
210	410						
680	940						
(3)	<table border="0"> <tr><td>36</td><td>121</td></tr> <tr><td>144</td><td>25</td></tr> </table>	36	121	144	25		
36	121						
144	25						
(4)	<table border="0"> <tr><td>0.5</td><td>0.25</td><td>0.75</td></tr> <tr><td>0.4</td><td>0.9</td><td>0.37</td></tr> </table>	0.5	0.25	0.75	0.4	0.9	0.37
0.5	0.25	0.75					
0.4	0.9	0.37					
(5)	<table border="0"> <tr><td>36</td><td>121</td></tr> <tr><td>6</td><td>36</td></tr> <tr><td>33</td><td>135</td></tr> </table>	36	121	6	36	33	135
36	121						
6	36						
33	135						
(6)	589	(11)	437				
(7)	670	(12)	407				
(8)	734	(13)	177				
(9)	465	(14)	279				
(10)	237	(15)	658				
(16)	20	(21)	8				
(17)	48	(22)	6				
(18)	42	(23)	4				
(19)	4	(24)	9				
(20)	9	(25)	63				

22										
(1)	0.015, 0.149, 1.24, 1.6, 18.5									
(2)	<table border="0"> <tr><td>7c</td><td>20c</td></tr> <tr><td>40c</td><td>1c</td></tr> </table>	7c	20c	40c	1c					
7c	20c									
40c	1c									
(3)	<table border="0"> <tr><td>$\frac{1}{4}$</td><td>$\frac{3}{5}$</td><td>$\frac{1}{20}$</td></tr> <tr><td>$\frac{1}{2}$</td><td>$\frac{3}{10}$</td><td>$\frac{3}{4}$</td></tr> </table>	$\frac{1}{4}$	$\frac{3}{5}$	$\frac{1}{20}$	$\frac{1}{2}$	$\frac{3}{10}$	$\frac{3}{4}$			
$\frac{1}{4}$	$\frac{3}{5}$	$\frac{1}{20}$								
$\frac{1}{2}$	$\frac{3}{10}$	$\frac{3}{4}$								
(4)	<table border="0"> <tr><td>1000</td><td>800</td></tr> <tr><td>500</td><td>400</td></tr> </table>	1000	800	500	400					
1000	800									
500	400									
(5)	<table border="0"> <tr><td>1529</td><td></td><td></td></tr> <tr><td>3773</td><td></td><td>3937</td></tr> <tr><td>1794</td><td></td><td></td></tr> </table>	1529			3773		3937	1794		
1529										
3773		3937								
1794										
(6)	<table border="0"> <tr><td>3650</td><td></td><td></td></tr> <tr><td>4986</td><td></td><td>41025</td></tr> <tr><td>9456</td><td></td><td></td></tr> </table>	3650			4986		41025	9456		
3650										
4986		41025								
9456										
(7)	<table border="0"> <tr><td>(600x7) + (40x7) + (5x7)</td><td>5971</td></tr> <tr><td>= 4200 + 280 + 35</td><td><u>51180</u></td></tr> <tr><td>= 4515</td><td>57151</td></tr> </table>	(600x7) + (40x7) + (5x7)	5971	= 4200 + 280 + 35	<u>51180</u>	= 4515	57151			
(600x7) + (40x7) + (5x7)	5971									
= 4200 + 280 + 35	<u>51180</u>									
= 4515	57151									
(8)	<table border="0"> <tr><td>49</td><td>538</td></tr> <tr><td>65</td><td>639</td></tr> </table>	49	538	65	639					
49	538									
65	639									

23										
(1)	<table border="0"> <tr><td>35</td><td><u>42</u></td></tr> <tr><td>63</td><td><u>70</u></td></tr> <tr><td>77</td><td><u>84</u></td></tr> </table>	35	<u>42</u>	63	<u>70</u>	77	<u>84</u>			
35	<u>42</u>									
63	<u>70</u>									
77	<u>84</u>									
(2)	<table border="0"> <tr><td>70 + 190 + 50 = 310</td></tr> <tr><td>1000 - 500 = 500</td></tr> </table>	70 + 190 + 50 = 310	1000 - 500 = 500							
70 + 190 + 50 = 310										
1000 - 500 = 500										
(3)	<table border="0"> <tr><td>0.9</td><td>0.8</td></tr> <tr><td>6.3</td><td>1.2</td></tr> </table>	0.9	0.8	6.3	1.2					
0.9	0.8									
6.3	1.2									
(4)	<table border="0"> <tr><td>50%</td><td>43%</td><td>60%</td></tr> <tr><td>25%</td><td>5%</td><td>75%</td></tr> </table>	50%	43%	60%	25%	5%	75%			
50%	43%	60%								
25%	5%	75%								
(5)	<table border="0"> <tr><td>1848</td><td></td><td></td></tr> <tr><td>207</td><td></td><td>4067</td></tr> <tr><td>186</td><td></td><td></td></tr> </table>	1848			207		4067	186		
1848										
207		4067								
186										
(6)	<table border="0"> <tr><td>684</td><td></td><td></td></tr> <tr><td>4777</td><td></td><td>1396</td></tr> <tr><td>2335</td><td></td><td></td></tr> </table>	684			4777		1396	2335		
684										
4777		1396								
2335										
(7)	<table border="0"> <tr><td>1076</td><td>5971</td></tr> <tr><td>2934</td><td><u>51180</u></td></tr> <tr><td></td><td>57151</td></tr> </table>	1076	5971	2934	<u>51180</u>		57151			
1076	5971									
2934	<u>51180</u>									
	57151									
(8)	<table border="0"> <tr><td>(1600 ÷ 8) + (48 ÷ 8)</td><td></td></tr> <tr><td>= 200 + 6 = 206</td><td></td></tr> </table>	(1600 ÷ 8) + (48 ÷ 8)		= 200 + 6 = 206						
(1600 ÷ 8) + (48 ÷ 8)										
= 200 + 6 = 206										

24										
(1)	<table border="0"> <tr><td>19</td><td>51</td></tr> <tr><td>24</td><td>16</td></tr> </table>	19	51	24	16					
19	51									
24	16									
(2)	<table border="0"> <tr><td>8000</td><td>4000</td></tr> <tr><td>3000</td><td>8000</td></tr> </table>	8000	4000	3000	8000					
8000	4000									
3000	8000									
(3)	<table border="0"> <tr><td>9</td><td>36</td></tr> <tr><td>9</td><td>45</td></tr> </table>	9	36	9	45					
9	36									
9	45									
(4)	<table border="0"> <tr><td>5</td><td>11</td></tr> <tr><td>9</td><td>7</td></tr> </table>	5	11	9	7					
5	11									
9	7									
(5)	<table border="0"> <tr><td>596.77</td><td></td><td></td></tr> <tr><td>373.97</td><td></td><td>4835.6</td></tr> <tr><td>672.4</td><td></td><td></td></tr> </table>	596.77			373.97		4835.6	672.4		
596.77										
373.97		4835.6								
672.4										
(6)	<table border="0"> <tr><td>143.18</td><td></td><td></td></tr> <tr><td>63.422</td><td></td><td>72.87</td></tr> <tr><td>467.77</td><td></td><td></td></tr> </table>	143.18			63.422		72.87	467.77		
143.18										
63.422		72.87								
467.77										
(7)	<table border="0"> <tr><td>(600 x 8) - (7 x 8)</td><td></td></tr> <tr><td>= 4800 - 56 = 4744</td><td></td></tr> </table>	(600 x 8) - (7 x 8)		= 4800 - 56 = 4744						
(600 x 8) - (7 x 8)										
= 4800 - 56 = 4744										
(8)	<table border="0"> <tr><td>0.73</td><td>5.29</td></tr> <tr><td>8.1</td><td>47.9</td></tr> </table>	0.73	5.29	8.1	47.9					
0.73	5.29									
8.1	47.9									

25	
(1)	$\frac{56}{24}$ 64 $\frac{24}{88}$ 32 96
(2)	10's = 30 100's = 100 1's = 7 10's = 60
(3)	0.64 3.6 0.7 3.15
(4)	$\frac{1}{2}$ $\frac{1}{4}$ $\frac{3}{5}$ $\frac{9}{10}$ $\frac{67}{100}$ $\frac{3}{4}$
(5)	345.45 10.42 5553.3 246.35
(6)	71.50 457.80 54.64 1625.43
(7)	336.5 66.69 31.20 $\frac{444.60}{511.29}$
(8)	$(700 \div 7) - (35 \div 7)$ $= 100 - 5 = 95$

26	
(1)	$500+80+800 = 1380$ $600 - 300 = 300$
(2)	52 9300 7100 840
(3)	$3\frac{4}{5}$ $3\frac{3}{6} = 3\frac{1}{2}$ $4\frac{2}{7}$ $5\frac{2}{8} = 5\frac{1}{4}$
(4)	27 pupils
(5)	26 11 41 55 45 93
(6)	968 (11) 412
(7)	580 (12) 278
(8)	738 (13) 492
(9)	695 (14) 348
(10)	224 (15) 718
(16)	32 (21) 4
(17)	36 (22) 4
(18)	28 (23) 9
(19)	9 (24) 7
(20)	7 (25) 72

27	
(1)	18 <u>24</u> 30 42 <u>48</u> 54 66 <u>72</u> 78
(2)	2.9 5.6 9.9 7.5
(3)	s = 8 m = 12
(4)	0.5 0.75 0.8 0.25 0.9 0.73
(5)	2726 6266 7177 7122
(6)	3947 6590 26421 11654
(7)	$(200 \times 9) + (70 \times 9) + (6 \times 9)$ $= 1800 + 630 + 54$ $= 2484$
(8)	142 r1 399 r4 136 r4 1150 r7

28	
(1)	17.089 37.256
(2)	$\frac{3}{5} = \frac{6}{10} = \frac{9}{15}$ $\frac{5}{8} = \frac{10}{16} = \frac{15}{24}$
(3)	1.46 7.56 20.93 63.11
(4)	28 pupils
(5)	3750 158 6489 2825
(6)	4860 9997 4925 4947
(7)	3928 5642 4470 $\frac{24180}{29822}$
(8)	$(400 \div 8) + (24 \div 8)$ $= 50 + 3 = 53$

29	
(1)	81 <u>90</u> 27 <u>36</u> 45 <u>54</u>
(2)	$36.7 + 9.5 = 46.2$ $94.6 - 7.8 = 86.8$
(3)	0.91 0.033 0.056 0.0074
(4)	6 -3 1 -3
(5)	378.70 290.36 604.51 219.7
(6)	539.16 76.436 3188.4 461.36
(7)	$(700 \times 6) + (9 \times 6)$ $= 4200 + 54 = 4254$
(8)	0.86 3.46 15.7 0.672

30	
(1)	nineteen point zero two four sixty-three point one seven two
(2)	$\frac{1}{10}$'s = $\frac{1}{10}$ $\frac{1}{100}$'s = $\frac{2}{100}$ $\frac{1}{100}$'s = $\frac{4}{100}$ $\frac{1}{10}$'s = $\frac{4}{10}$
(3)	$\frac{19}{5}$ $\frac{43}{7}$ $\frac{35}{8}$ $\frac{49}{9}$
(4)	50% 90% 40% 7% 25% 75%
(5)	380.55 299.11 5539.9 134.72
(6)	143.95 670.04 504.64 771.52
(7)	33.90 1.148 348.8 $\frac{51.660}{52.808}$
(8)	$(900 \div 9) + (63 \div 9)$ $= 100 + 7 = 107$

31	
(1)	8, <u>16</u> , <u>24</u> , 32, <u>40</u> , <u>48</u> , <u>56</u> , <u>64</u> , 72, <u>80</u> , <u>88</u> , <u>96</u> , 104, 112, 120
(2)	$70 + 50 + 130 = 250$ $1000 - 400 = 600$
(3)	11 9 5 12
(4)	0.5 0.25 0.9 0.75 0.47 0.05
(5)	19 23 7 42 23 7
(6)	578 (11) 312
(7)	688 (12) 207
(8)	567 (13) 186
(9)	249 (14) 564
(10)	684 (15) 637
(16)	16 (21) 6
(17)	24 (22) 9
(18)	63 (23) 7
(19)	7 (24) 8
(20)	8 (25) 54

32	
(1)	0.046, 0.45, 4.25, 46.6, 495
(2)	81 36 400 225
(3)	$\frac{3}{5}$ $\frac{1}{2}$ $\frac{3}{4}$ $\frac{1}{4}$ $\frac{3}{50}$ $\frac{39}{100}$
(4)	39 7200 54000 860
(5)	9793 2935 56740 5188
(6)	2868 49243 23167 29423
(7)	$(400 \times 8) + (0 \times 8) + (9 \times 8)$ $= 3200 + 0 + 72$ $= 3272$
(8)	98 r4 342 r4 197 r3 511 r8

33			
(1)	21 56 84	<u>28</u> <u>63</u> <u>91</u>	
(2)	0.00039 0.058	0.41 0.0076	
(3)	3.6 3.69	1.2 3.5	
(4)	6% 30%	43% 25%	75% 150%
(5)	72 2801 765	54221	
(6)	754 57374 4560	9456	
(7)	1904 4653	$\frac{42357}{121020}$ $\frac{163377}{163377}$	
(8)	$(900 \div 9) - (27 \div 9)$ $= 100 - 3 = 97$		

34		
(1)	48 34	54 24
(2)	4 2	2 4
(3)	10's = 50 1's = 5	100's = 700 10's = 10
(4)	50 3	48 30
(5)	152.92 884.11 105.724	3617.63
(6)	124.5 37.77 2702.29	516.5
(7)	$(900 \times 9) - (45 \times 9)$ $= 8100 - 405 = 7695$	
(8)	1.29 r3 29.1 r2	16.02 r2 0.936 r5

35			
(1)	<u>12</u> <u>66</u> <u>48</u>	18 72 54	
(2)	$\frac{24}{36} = \frac{12}{18} = \frac{6}{9}$ $\frac{28}{56} = \frac{14}{28} = \frac{7}{14}$		
(3)	3.92 2.4	5.39 2.7	
(4)	50% 70%	80% 75%	25% 9%
(5)	2.783 261.67 125.73	3470.5	
(6)	30.344 123.48 2137.594	91.88	
(7)	2.445 1.422	$\frac{0.4712}{2.3560}$ 2.8272	
(8)	$(400 \div 8) + (64 \div 8)$ $= 50 + 8 = 58$		

36		
(1)	$a = 5^2/3$ $b = 14^4/7$	
(2)	7 9	4 12
(3)	$2 \times 3 + 7 = 13$ $24 \div 3 - 6 = 2$ $25 - 18 \div 6 = 22$ $37 - 4 \times 8 = 5$	
(4)	$3^4/5$ $8^7/8$	$6^1/2$ $7^4/9$
(5)	27 8 22	37 42 3
(6)	649	(11) 565
(7)	890	(12) 213
(8)	658	(13) 154
(9)	573	(14) 287
(10)	513	(15) 951
(16)	24	(21) 9
(17)	54	(22) 7
(18)	49	(23) 5
(19)	8	(24) 8
(20)	6	(25) 54

37			
(1)	18 72 99	<u>27</u> <u>81</u> <u>108</u>	36 90 117
(2)	$1/10's = 9/10$ $1/100's = 3/100$	$1/100's = 2/100$ $1/10's = 4/10$	
(3)	0.0921 1.158	0.934 0.0064	
(4)	17 45	28 18	
(5)	10180 41604 20150	39377	
(6)	2637 38408 150925	47421	
(7)	$(400 \times 7) + (50 \times 7) + (3 \times 7)$ $= 2800 + 350 + 21$ $= 3171$		
(8)	136 r1 179 r3	1316 r1 785 r3	

38			
(1)	40 120	320 180	
(2)	$d = 5^4/9$ $k = 10^1/4$		
(3)	140 924	1238 740	
(4)	$3/50$ $3/4$	$9/25$ $1/2$	$1/4$ $4/5$
(5)	13671 58360 17202	28471	
(6)	729 32839 3476	5596	
(7)	28756 17670	$\frac{15057}{50190}$ 65247	
(8)	$(700 \div 7) - (35 \div 7)$ $= 100 - 5 = 95$		

39			
(1)	64 72 32	<u>72</u> <u>80</u> <u>40</u>	
(2)	0.0039 0.2158	3.41 0.0126	
(3)	0.5 0.09	0.8 0.75	0.25 0.375
(4)	55 8	28 66	
(5)	119.453 262.68 6950.79	219.47	
(6)	7.56 332.46 5612.24	1558.0	
(7)	$(500 \times 5) - (25 \times 5)$ $= 2500 - 125 = 2375$		
(8)	9.3 r3 2.23 r1	0.634 r2 11.77 r4	

40		
(1)	1230 7600	19000 0.6
(2)	0.9 2.6 (1 d.p.)	9.6 4.5
(3)	$65/9$ $69/7$	$37/8$ $63/10$
(4)	$5 \times 4 + 9 = 29$ $36 \div 9 + 7 = 11$ $40 - 3 \times 6 = 22$ $13 + 28 \div 7 = 17$	
(5)	61.3 20.643 272.42	482.3
(6)	652.27 391.2 198.24	341.59
(7)	1.140 4.3078	$\frac{0.04311}{0.23950}$ 0.28261
(8)	$(900 \div 9) + (27 \div 9)$ $= 100 + 3 = 103$	