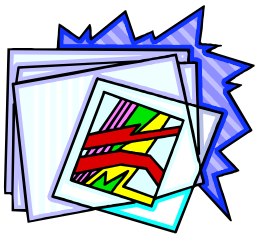
Written in NZ for NZ

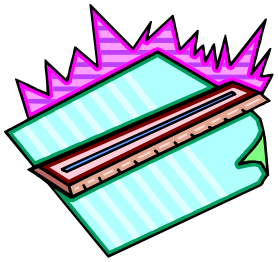
Help Me at HOME Series

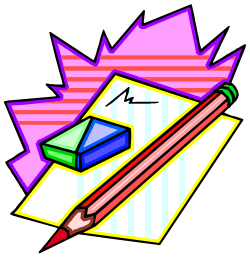
Number Knowledge Worksheets

A Teacher's resource supplied as PHOTOCOPY MASTERS

Book 8a







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 8b which covers Level 5 of the achievement objectives as outlined in the *Mathematics in the New Zealand Curriculum* for the strands ... Number & Algebra, Measurement & Geometry and Statistics.

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AWS Publications Ltd

AH8a

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Help Me at HOME Series

Mathematics
Student Workbook






Book 8a

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First Published October 2008

Formatting and publishing by
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Note from the author:

About this resource ...

Help Me at Home Number Knowledge Worksheets
- Book 8a (Code: AH8a)

... 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 8a is to be used in conjunction with a second resource, Book 8b.

Help Me at Home Curriculum Strand Worksheets
- Book 8b (Code: AH8b)

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 - **2** - 3	1 to 3	1
2a / 2b	AH2a & AH2b	2 - **3** - 4	4	1 / 2
3a / 3b	AH3a & AH3b	3 - **4** - 5	4 & 5	2
4a / 4b	AH4a & AH4b	4 - **5** - 6	5 & 6	2 / 3
5a / 5b	AH5a & AH5b	5 - **6** - 7	6 & 7	3
6a / 6b	AH6a & AH6b	6 - **7** - 8	6 & 7	3 / 4
7a / 7b	AH7a & AH7b	7 - **8** - 9	6 to 8	4
8a / 8b	AH8a & AH8b	8 - **9** - 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 8a & Book 8b

Book AH8a
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 8b)**.
- **Book 8a** covers the **Strategy Stages** 6 to 8.

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

Book AH8b
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 8a)**.
- The worksheet selected per week relates to the topic being covered at school or as revision.
- **Book 8b** covers Level 5 of the **Curriculum**.

Note to Teachers:

- The aim of these TWO resources **(AH8a & AH8b)** 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 8a:

- **Photocopy** weekly and sequentially in order, **a Number Knowledge** worksheet from **Book 8a**. 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 8b:

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

Extension Activity for Parents:

- **Each Curriculum Strand Worksheet has an AT HOME activity as an extension activity for parents or care-givers.**
- Success in mathematics is greatly enhanced by having a good understanding of Number Knowledge. That is, from being able to add, subtract, multiply and divide with confidence, ... with success .... comes enjoyment.
- Either staple the two worksheets together or create a double sided homework sheet.

Book 8a (AH8a) - Number Knowledge Worksheets

Number Knowledge Worksheet	Term & Week Enter details below	Curriculum Strand Worksheet Enter the worksheet number issued each week
1	Term: Week:	
2	Term: Week:	
3	Term: Week:	
4	Term: Week:	
5	Term: Week:	
6	Term: Week:	
7	Term: Week:	
8	Term: Week:	
9	Term: Week:	
10	Term: Week:	
11	Term: Week:	
12	Term: Week:	
13	Term: Week:	
14	Term: Week:	
15	Term: Week:	
16	Term: Week:	
17	Term: Week:	
18	Term: Week:	
19	Term: Week:	
20	Term: Week:	

Number Knowledge Worksheet	Term & Week Enter details below	Curriculum Strand Worksheet Enter the worksheet number issued each week
21	Term: Week:	
22	Term: Week:	
23	Term: Week:	
24	Term: Week:	
25	Term: Week:	
26	Term: Week:	
27	Term: Week:	
28	Term: Week:	
29	Term: Week:	
30	Term: Week:	
31	Term: Week:	
32	Term: Week:	
33	Term: Week:	
34	Term: Week:	
35	Term: Week:	
36	Term: Week:	
37	Term: Week:	
38	Term: Week:	
39	Term: Week:	
40	Term: Week:	

Book 8b (AH8b) - Curriculum Strand Worksheets

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

		Tick			Tick
1	Revision		21	Area - Square / rectangle / triangle	
2	Addition & subtraction strategies		22	Area - Parallelogram / trapezium / circle	
3	Multiplication & division strategies		23	Circles - circumference & area	
4	Working with decimals		24	Volume	
5	Powers & Order of operations		25	Reading and drawing angles	
6	Decimal place / Significant figures		26	Angle rule revision	
7	Fractions / decimals / percentages		27	Interior angle sum of polygons	
8	Equivalent fractions / simplifying		28	Angles & parallel lines	
9	More fractions		29	Compass points and compass bearings	
10	Working with percentages		30	Constructions & loci	
11	Positive & negative numbers / Integers		31	Pythagoras and trigonometry ratios	
12	Standard form ó ordinary numbers		32	Using trigonometry ratios	
13	Ratio & rates		33	Reflection & Rotation	
14	Number patterns or sequences		34	Enlargement & Translation	
15	'Like' terms, expanding & factorising		35	Mean, median, mode and the range	
16	Solving linear equations		36	Discrete / continuous data and histograms	
17	Plotting ordered pairs / linear graphs		37	Graphs - 1	
18	The metric system		38	Box & Whisker graphs and Pie graphs	
19	2-D and 3-D shapes / Nets		39	Probability calculations	
20	Perimeter		40	Finding outcomes & probabilities	

Number Knowledge Worksheet Section

The following activities are covered in worksheets 1 to 10:

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

  Example: 93.04 + 40.6 + 8.3 = _____ , 24.75 + _____ + 69 = 130.45 *etc.*
- Using appropriate **number strategies** to revise **multiplication and division facts** up to 10 x 10.

  Example: 368 x 5 = (_____ x _____) - (_____ x _____) *etc.*

The following activities are covered in worksheets 11 to 20:

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

The following activities are covered in worksheets 21 to 30:

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

The following activities are covered in worksheets 31 to 40:

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

1	Name:		Term:		Week:		Worksheet:		AWS

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

_____, 18, _____, _____, _____, _____, 63, _____,

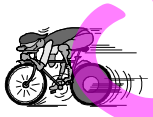
81, _____, _____, _____, _____, _____, 135

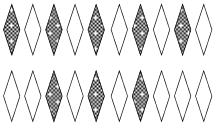
(2) **Round** these numbers to the **nearest 10**.

231 = _____ 683 = _____

1465 = _____ 3249 = _____

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





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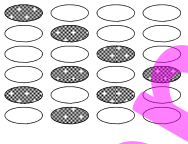


_____

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

fraction	decimal	percentage
$^1/_4$		
		60%
	0.7	

(5) **Adding** large numbers.

3143 + 732 + 13 = _____

471 + 26 + 534 = _____

72 + 494 + 4124 = _____

252
63
10936
+ 512
_____
_____

(6) **Subtracting** large numbers.

1298 - 53 = _____

13427 - 965 = _____

27385 - 3621 = _____

5647
- 482
_____
_____

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

Example: 231 x 3 = (200 x 3) + (30 x 3) + (1 x 3) = 600 + 90 + 3 = 693

348 x 4 = (_____ x ___) + (___ x ___) + (___ x ___)

= _____ + _____ + _____ = _____

(8) **Dividing** large numbers.

$2\overline{)756}$ $5\overline{)1275}$

$3\overline{)612}$ $4\overline{)2684}$

Working Space

2 | Name: | Term: | Week: | Worksheet: | AWS

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

_____ , _____ , _____ , _____ , _____

0.25
2.06
2
20.04
0.029

(2) **List** the first 5 **multiples** of these numbers.

2 = _____ 5 = _____

7 = _____ 10 = _____

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

563 = _____ 946 = _____

1470 = _____ 2150 = _____

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

50% = _____ 80% = _____ 25% = _____

37% = _____ 75% = _____ 8% = _____

(5) **Adding** large numbers.

462 + 14 + 2738 = _____

535 + _____ + 47 = 3412

41 + 972 + _____ = 1670

1675
81
32523
+ 426
_____

(6) **Subtracting** large numbers.

3286 - _____ = 2516

_____ - 2608 = 974

21573 - _____ = 19706

15539
-
_____
6351

(7) **Multiplying** whole numbers.

579
x 5
_____

341
x 6
_____

920
x 23
_____

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

Example: 145 ÷ 5 = (100 ÷ 5) + (45 ÷ 5) = 20 + 9 = 29

436 ÷ 4 = (_____ ÷ _____) + (_____ ÷ _____)

= _____ + _____ = _____

Working Space

3	Name:		Term:		Week:		Worksheet:		AWS

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

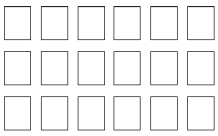
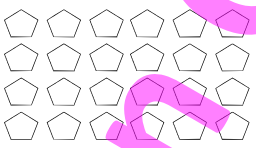
24, _____ 64, _____ 72, _____

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

89 + 104 + 493 = _____ + _____ + _____ = _____

1308 - 783 = _____ - _____ = _____

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

$\frac{2}{3}$  $\frac{5}{6}$ 

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

0.5 = _____ 0.75 = _____ 0.4 = _____

0.67 = _____ 0.09 = _____ 0.9 = _____

(5) **Adding** decimals.

93.04 + 40.6 + 8.3 = _____

4.94 + 5 + 38.7 = _____

59 + 1.86 + 94.3 = _____

$$\begin{array}{r} 341.8 \\ 2.8 \\ 5291.0 \\ +\ 38.4 \\ \hline \\ \hline \end{array}$$

(6) **Subtracting** decimals.

316.2 - 29.4 = _____

578.27 - 85.84 = _____

298.62 - 43.9 = _____

$$\begin{array}{r} 38.95 \\ -\ 7.28 \\ \hline \\ \hline \end{array}$$

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

Example: 296 x 3 = (300 x 3) - (4 x 3) = 900 - 12 = 888

368 x 5 = (_____ x _____) - (_____ x _____)

= _____ - _____ = _____

(8) **Dividing** decimals.

$3\overline{)1.68}$ $4\overline{)38.08}$

$6\overline{)35.4}$ $7\overline{)2.702}$

Working Space

4	Name:		Term:		Week:		Worksheet:		AWS

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

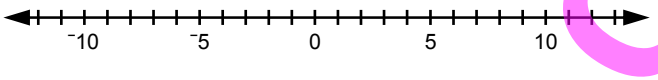
six hundred and two thousand, seven hundred and twenty-nine _____

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

6327 = _____ 1843 = _____

32496 = _____ 10985 = _____

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



⁻5 + 9 = _____ ⁻8 + 7 = _____

13 + ⁻9 = _____ 3 + ⁻12 = _____

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

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

6^2 = _____ 11^2 = _____

3^2 = _____ 15^2 = _____

(5) **Adding** decimals.

59.36 + 58.9 + 72 = _____

24.75 + _____ + 69 = 130.45

54 + 9.4 + _____ = 81.13

65.81
0.35
472.07
+ 3.98
_____

(6) **Subtracting** decimals.

147.1 - _____ = 71.9

_____ - 64.38 = 509.36

264.17 - _____ = 218.57

188.35
-
_____
93.79
_____

(7) **Multiplying** decimals.

53.8
× 4
_____
_____

9.72
× 6
_____
_____

4.15
× 7.3
_____
_____
_____
_____

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

Example: 195 ÷ 5 = (200 ÷ 5) - (5 ÷ 5) = 20 - 1 = 19

232 ÷ 8 = (_____ ÷ _____) - (_____ ÷ _____)

= _____ - _____ = _____

Working Space

5	Name:		Term:		Week:		Worksheet:		AWS

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

_____ , 56 _____ , 35 _____ , 91

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

Example: In 4**5**2 the place value is **10's** and it means **50**.

2**9**1 = _____ = _____ **2**73 = _____= _____

63**5** = _____ = _____ **9**41 = _____ = _____

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

$^1/_2$ of 36 = _____ $^1/_4$ of 32 = _____

$^2/_3$ of 27 = _____ $^2/_5$ of 60 = _____

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

0.5 = _____ 0.25 = _____ 0.8 = _____

0.75 = _____ 0.08 = _____ 0.36 = _____

(5) **Adding** large numbers.

762 + 4835 + 24 = _____

74 + 232 + 3489 = _____

6941 + 86 + 119 = _____

437
12980
22
+ 508
_____

(6) **Subtracting** large numbers.

1472 - 617 = _____

24063 - 802 = _____

75085 - 9626 = _____

13625
- 945
_____

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

Example: 231 x 3 = (200 x 3) + (30 x 3) + (1 x 3) = 600 + 90 + 3 = 693

694 x 7 = (____ x ___) + (___ x ___) + (___ x ___)

= _____ + _____ + _____ = _____

(8) **Dividing** large numbers, some with remainders.

$6\overline{)414}$ $8\overline{)4992}$

$7\overline{)623}$ $9\overline{)4839}$

Working Space

6	Name:		Term:		Week:		Worksheet:		AWS

(1) **List** the **factors** of these numbers.

10 = _____ 15 = _____

24 = _____

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

356 + 210 + 95 = _____ + _____ + _____ = _____

4867 - 708 = _____ - _____ = _____

(3) **Convert** these **improper fractions** to **mixed numbers**. *Example:* $^{11}/_4 = 2^3/_4$

$^{15}/_4$ = _____ $^{23}/_7$ = _____

$^{34}/_6$ = _____ $^{41}/_9$ = _____

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

$^1/_2$ = _____ $^1/_4$ = _____ $^2/_3$ = _____

$^2/_5$ = _____ $^1/_{20}$ = _____ $^{37}/_{100}$ = _____

(5) **Adding** large numbers.

613 + 4690 + 79 = _____

71 + _____ + 3176 = 3901

2358 + 89 + _____ = 3049

541
3949
73
+ 260
_____

(6) **Subtracting** large numbers.

7238 - _____ = 7153

_____ - 649 = 3263

11090 - _____ = 8127

3958
-
3799
_____

(7) **Multiplying** whole numbers.

193
x 8
_____

257
x 9
_____

742
x 76
_____

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

Example: 145 ÷ 5 = (100 ÷ 5) + (45 ÷ 5) = 20 + 9 = 29

945 ÷ 9 = (_____ ÷ _____) + (_____ ÷ _____)

= _____ + _____ = _____

Working Space

7	Name:		Term:		Week:		Worksheet:		AWS

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

48 _____ 60, 90 _____ 102, 24 _____ 36

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

2.43 = _____ 3.74 = _____

37.86 = _____ 60.15 = _____

(3) 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 $^{5}/_{10}$.

3.**4**6 = _____ = _____ 7.8**2** = _____= _____

12.5**8** = _____ = _____ 39.**3**1 = _____ = _____

(4) Find the **square root** of these numbers.

Example: √9 = 3 as 3 x 3 = 9

√81 = _____ √16 = _____

√64 = _____ √144 = _____

(5) **Adding** decimals.

93.09 + 6.3 + 280.8 = _____

2.31 + 382.74 + 69.9 = _____

5.205 + 6.78 + 14.67 = _____

0.15
368.25
0.57
+ 17.80
_____
_____

(6) **Subtracting** decimals.

301.8 - 47.4 = _____

358.70 - 77.32 = _____

1526.73 - 354.8 = _____

584.06
- 37.85
_____
_____

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

Example: 296 x 3 = (300 x 3) - (4 x 3) = 900 - 12 = 888

588 x 6 = (_____ x _____) - (_____ x _____)

= _____ - _____ = _____

(8) **Dividing** decimals.

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

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

Working Space

8	Name:		Term:		Week:		Worksheet:		AWS

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

nine point three zero seven _____

forty-five point two eight three _____

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

$\frac{2}{3}$ = ____ = ____ $\frac{2}{5}$ = ____ = ____

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

0.138 = _____ 7.145 = _____

50.342 = _____ 23.0129 = _____

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

$^1/_2$ = _____ $^1/_4$ = _____ $^2/_5$ = _____

$^2/_3$ = _____ $^1/_{25}$ = _____ $^5/_8$ = _____

(5) **Adding** decimals.

367.1 + 2.54 + 82.6 = _____

82.14 + _____ + 9.35 = 675.09

168.6 + 44.59 + _____ = 233.47

1.80
3.51
48.47
+ 0.93
_____

(6) **Subtracting** decimals.

357.8 - _____ = 284.9

_____ - 487.2 = 279.67

2916.7 - _____ = 2566.91

738.5
-
_____
678.9
_____

(7) **Multiplying** decimals.

35.8
x 5
_____
_____

1.94
x 8
_____
_____

53.8
x 4.9
_____
_____
_____
_____

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

Example: 195 ÷ 5 = (200 ÷ 5) - (5 ÷ 5) = 20 - 1 = 19

873 ÷ 9 = (_____ ÷ _____) - (_____ ÷ _____)

= _____ - _____ = _____

Working Space

9 Name: Term: Week: Worksheet: AWS

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

49, _____ 77, _____ 28, _____

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

12.19 + 5.83 = _____ + _____ = _____

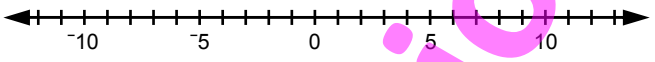
14.84 - 9.07 = _____ - _____ = _____

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

$^1/_3$ of 27 = _____ $^3/_4$ of 36 = _____

$^5/_8$ of 40 = _____ $^4/_7$ of 49 = _____

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



⁻7 + 12 = _____ ⁻5 + 5 = _____

11 + ⁻12 = _____ 9 + ⁻12 = _____

(5) **Adding** large numbers.

157 + 1349 + 23 = _____

90 + 748 + 2935 = _____

1376 + 20 + 398 = _____

370
67
2585
+ 915
_____
_____

(6) **Subtracting** large numbers.

4026 - 376 = _____

5802 - 816 = _____

10393 - 937 = _____

42000
- 975
_____
_____

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

Example: 231 x 3 = (200 x 3) + (30 x 3) + (1 x 3) = 600 + 90 + 3 = 693

645 x 7 = (_____ x ___) + (___ x ___) + (___ x ___)

= _____ + _____ + _____ = _____

(8) **Dividing** large numbers.

$9\overline{)441}$ $6\overline{)3228}$

$8\overline{)520}$ $7\overline{)4473}$

Working Space

10 Name: Term: Week: Worksheet: AWS

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

2.307 _____

0.069 _____

(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 $^{5}/_{10}$.

2.**9**7 = _____ = _____ 3.4**8** = _____ = _____

16.3**9** = _____ = _____ 94.**6**7 = _____ = _____

(3) **Convert** these **mixed numbers** to **improper fractions**. *Example:* $4^{2}/_{3} = {}^{14}/_{3}$

$3^{1}/_{5}$ = _____ $7^{3}/_{4}$ = _____

$6^{2}/_{3}$ = _____ $4^{3}/_{8}$ = _____

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

50% = _____ 40% = _____ 75% = _____

47% = _____ 64% = _____ 6% = _____

(5) **Adding** large numbers.

482 + 1312 + 54 = _____

67 + _____ + 1398 = 1672

2382 + 45 + _____ = 2613

158
3564
27
+ 318
_____

(6) **Subtracting** large numbers.

2986 - _____ = 2302

_____ - 358 = 4419

5633 - _____ = 3298

3637
-
_____
2241
_____

(7) **Multiplying** whole numbers.

269 x 4 = _____

326 x 9 = _____

853 x 67 = _____

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

Example: 145 ÷ 5 = (100 ÷ 5) + (45 ÷ 5) = 20 + 9 = 29

1648 ÷ 8 = (_____ ÷ _____) + (_____ ÷ _____)

= _____ + _____ = _____

Working Space

11 Name: Term: Week: Worksheet: AWS

(1) **Solve** these **equations**.

4d + 13 = 49 d = _____

7k - 19 = 37 k = _____

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

362 = _____ 257 = _____

1846 = _____ 2395 = _____

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

7^2 = _____ 9^2 = _____

12^2 = _____ 20^2 = _____

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

25% = _____ 30% = _____ 97% = _____

124% = _____ 4% = _____ 0.5% = _____

(5) **Adding** decimals.

56.84 + 530.23 + 9.7 = _____

274.19 + 6.2 + 93.58 = _____

8.7 + 39.6 + 624.1 = _____

9.5
4133.5
71.5
+ 621.1
_____

(6) **Subtracting** decimals.

148.45 - 5.27 = _____

64.782 - 1.36 = _____

931.0 - 463.23 = _____

148.83
- 75.96
_____

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

Example: 296 x 3 = (300 x 3) - (4 x 3) = 900 - 12 = 888

593 x 8 = (_____ x _____) - (_____ x _____)

= _____ - _____ = _____

(8) **Dividing** decimals.

$4\overline{)2.92}$ $7\overline{)37.03}$

$9\overline{)72.9}$ $8\overline{)383.2}$

Working Space

12 Name: Term: Week: Worksheet: AWS

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

3.28
0.329
32.4
0.0321
326

_____ , _____ , _____ , _____ , _____

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

4.**1**3 = _____ = _____ 6.2**7** = _____= _____

13.4**8** = _____ = _____ 31.**9**4 = _____ = _____

(3) **Convert** these **percentages** to **fractions**.

40% = _____ $66\frac{2}{3}$% = _____ 5% = _____

17% = _____ 75% = _____ 125% = _____

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

632 = _____ 850 = _____

1794 = _____ 1469 = _____

(5) **Adding** decimals.

13.6 + 324.2 + 7.65 = _____

142.7 + _____ + 4.55 = 157.67

9.39 + 46.8 + _____ = 302.54

331.8
52.7
5120.9
+ 47.9
_____

(6) **Subtracting** decimals.

259.34 - _____ = 187.84

_____ - 21.53 = 436.27

1788.3 - _____ = 162.87

397.13
-
_____
342.49
_____

(7) **Multiplying** decimals.

67.3 × 5 = _____

3.90 × 8 = _____

74.1 × 6.9 = _____

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

Example: 195 ÷ 5 = (200 ÷ 5) - (5 ÷ 5) = 20 - 1 = 19

665 ÷ 7 = (_____ ÷ _____) - (_____ ÷ _____)

= _____ - _____ = _____

Working Space

13 Name: Term: Week: Worksheet: AWS

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

81, _____ 45, _____ 108, _____

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

78 + 194 + 34 = _____ + _____ + _____ = _____

6345 - 287 = _____ - _____ = _____

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

$^1/_7$ of 5.6 = _____ $^2/_5$ of 23.5 = _____

$^2/_3$ of 12.9 = _____ $^7/_8$ of 25.6 = _____

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

0.25 = _____ 0.9 = _____ 0.65 = _____

0.004 = _____ 0.08 = _____ 2.75 = _____

(5) **Adding** large numbers.

1943 + 32 + 751 = _____

847 + 5390 + 29 = _____

89 + 302 + 6731 = _____

5852
770
36
+ 519
_____
_____

(6) **Subtracting** large numbers.

4620 - 673 = _____

7208 - 618 = _____

12393 - 739 = _____

27000
- 579
_____
_____

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

Example: 231 x 3 = (200 x 3) + (30 x 3) + (1 x 3) = 600 + 90 + 3 = 693

276 x 9 = (_____ x ___) + (___ x ___) + (___ x ___)

= _____ + _____ + _____ = _____

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

$3\overline{)427}$ $6\overline{)2398}$

$5\overline{)684}$ $8\overline{)9207}$

Working Space

14 Name: Term: Week: Worksheet: AWS

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

9 + 32 ÷ 4 = _____ 82 - 7 × 9 = _____

2 × 7 + 3^2 = _____ 3(8 + 4 × 3) = _____

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

2530 = _____ 9190 = _____

12499 = _____ 23710 = _____

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

50% of 84 = _____ 25% of 52 = _____

10% of 96 = _____ 40% of 70 = _____

(4) Find the **square root** of these numbers.

Example: √9 = 3 as 3 x 3 = 9

√25 = _____ √49 = _____

√121 = _____ √400 = _____

(5) **Adding** large numbers.

45 + 3421 + 284 = _____

1893 + _____ + 76 = 2127

283 + 54 + _____ = 3162

851
4653
72
\+ 913
_____

(6) **Subtracting** large numbers.

6892 - _____ = 2032

_____ - 853 = 9144

7336 - _____ = 2389

6347
\-
1422
_____

(7) **Multiplying** whole numbers.

982
x 4
_____

745
x 6
_____

806
x 37
_____

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

Example: 145 ÷ 5 = (100 ÷ 5) + (45 ÷ 5) = 20 + 9 = 29

963 ÷ 9 = (_____ ÷ _____) + (_____ ÷ _____)

= _____ + _____ = _____

Working Space

15 Name: Term: Week: Worksheet: AWS

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

_____ , 48 _____ , 120 _____ , 88

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

2**9**.34 = _____ = _____ **3**59 = _____= _____

7.9**5** = _____ = _____ 6.**7**2 = _____ = _____

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

$33\frac{1}{3}$% of 12.6 = _____ 20% of 9.5 = _____

25% of 0.48 = _____ 80% of 20.5 = _____

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

0.6 = _____ 0.17 = _____ $0.33\dot{3}$ = _____

0.08 = _____ 3.75 = _____ 0.005 = _____

(5) **Adding** decimals.

7.9 + 65.48 + 305.32 = _____

39.85 + 247.91 + 2.6 = _____

142.6 + 7.8 + 69.3 = _____

```
  53.31
   5.90
 533.14
+ 12.16
--------
```

(6) **Subtracting** decimals.

548.41 - 9.25 = _____

82.746 - 6.31 = _____

785.00 - 323.64 = _____

```
 3884.1
- 695.7
-------
```

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

Example: 304 x 3 = (300 x 3) + (4 x 3) = 900 + 12 = 912

709 x 6 = (_____ x _____) + (_____ x _____)

= _____ + _____ = _____

(8) **Dividing** decimals.

$4\overline{)3.44}$ $7\overline{)24.22}$

$5\overline{)78.5}$ $9\overline{)6.048}$

Working Space

16 Name: Term: Week: Worksheet: AWS

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

256 + 107 + 86 = _____ + _____ + _____ = _____

6810 - 516 = _____ - _____ = _____

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

56 × 10 = _____ 2.34 × 1000 = _____

0.34 × 1000 = _____ 136 × 100 = _____

(3) **Convert** these **improper fractions** to **mixed numbers**. *Example:* $^{11}/_4 = 2^3/_4$

$^{19}/_5$ = _____ $^{37}/_8$ = _____

$^{27}/_6$ = _____ $^{48}/_9$ = _____

(4) A group of 6 pupils from Room 8 went on a bus ride to the zoo. If this group makes up $^1/_5$ of the Room 8 pupils, how many pupils are there in Room 8?

_____

(5) **Adding** decimals.

31.6 + 342.2 + 6.75 = _____

417.2 + _____ + 5.45 = 721.76

3.93 + 64.8 + _____ = 203.45

31.8
5152.7
7.5
+ 347.9
_____

(6) **Subtracting** decimals.

925.43 - _____ = 781.48

_____ - 35.12 = 634.92

1298.3 - _____ = 526.78

739.13
-
234.49
_____

(7) **Multiplying** decimals.

6.78
x 5
_____

43.6
x 8
_____

5.74
x 9.2
_____

(8) **Dividing** large numbers using 'tidy' numbers.
Example: 195 ÷ 5 = (200 ÷ 5) - (5 ÷ 5) = 20 - 1 = 19

873 ÷ 9 = (_____ ÷ _____) - (_____ ÷ _____)

= _____ - _____ = _____

Working Space

17 Name: Term: Week: Worksheet: AWS

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

36 _____ 54, 72 _____ 90, 108 _____ 126

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

60.92 = _____ 5.374 = _____

9.765 = _____ 78.049 = _____

(3) **Solve** these **equations**, with mixed number answers.

7d + 21 = 32 d = _____

8k - 14 = 59 k = _____

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

$^{1}/_{2}$ = _____ $^{2}/_{5}$ = _____ $^{2}/_{3}$ = _____

$^{3}/_{4}$ = _____ $^{7}/_{10}$ = _____ $^{3}/_{100}$ = _____

(5) **Adding** large numbers.

9304 + 406 + 83 = _____

494 + 54 + 2387 = _____

59 + 4186 + 943 = _____

```
  3418
    28
 52910
+  384
------
------
```

(6) **Subtracting** large numbers.

3162 - 294 = _____

57827 - 8584 = _____

29862 - 439 = _____

```
 23895
-  728
-------
-------
```

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

Example: 231 x 3 = (200 x 3) + (30 x 3) + (1 x 3) = 600 + 90 + 3 = 693

409 x 8 = (_____ x ___) + (___ x ___) + (___ x ___)

= _____ + _____ + _____ = _____

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

$6\overline{)592}$ $7\overline{)2398}$

$4\overline{)791}$ $9\overline{)4607}$

Working Space

18 Name: Term: Week: Worksheet: AWS

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

one hundred point two zero eight _____

sixty-seven point zero zero nine five _____

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

$\frac{3}{5}$ = ____ = ____ $\frac{2}{7}$ = ____ = ____

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

0.056 = _____ 3.961 = _____

45.009 = _____ 2.3419 = _____

(4) **Complete** these ratios.

Example: The ratio 3:4 is the same as 6:8.

2:3 = _____ :12 5:_____ = 20:16

_____ :32 = 1:8 24:18 = 4 :_____

(5) **Adding** large numbers.

5936 + 589 + _____ = 6597

2475 + _____ + 769 = 6045

54 + 2394 + _____ = 3213

6581
35
47207
+ 398
_____

(6) **Subtracting** large numbers.

1473 - _____ = 719

_____ - 6438 = 50936

26417 - _____ = 21857

18835
-
_____
9379
_____

(7) **Multiplying** whole numbers.

238
x 8
_____

517
x 9
_____

6051
x 27
_____

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

Example: 145 ÷ 5 = (100 ÷ 5) + (45 ÷ 5) = 20 + 9 = 29

424 ÷ 8 = (_____ ÷ _____) + (_____ ÷ _____)

= _____ + _____ = _____

Working Space

19 Name: Term: Week: Worksheet: AWS

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

81, _____ 45, _____ 108, _____

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

40.29 + 8.73 = _____ + _____ = _____

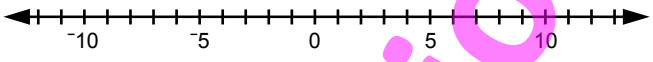
32.54 - 7.25 = _____ - _____ = _____

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

265 ÷ 10 = _____ 736 ÷ 100 = _____

3.48 ÷ 100 = _____ 412 ÷ 1000 = _____

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



⁻9 + 8 = _____ ⁻7 + 12 = _____

8 + ⁻11 = _____ ⁻4 + ⁻3 = _____

(5) **Adding** decimals.

144.3 + 7.32 + 1.3 = _____

4.71 + 26 + 853.4 = _____

7.2 + 94.4 + 4.124 = _____

462.52
0.63
3109.36
+ 45.12
_____

(6) **Subtracting** decimals.

129.8 - 5.3 = _____

134.27 - 96.5 = _____

2738.5 - 36.21 = _____

564.7
- 48.2
_____

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

Example: 296 x 3 = (300 x 3) - (4 x 3) = 900 - 12 = 888

855 x 9 = (_____ x _____) - (_____ x _____)

= _____ - _____ = _____

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

$5\overline{)6.48}$ $6\overline{)96.14}$

$3\overline{)87.5}$ $8\overline{)7.493}$

Working Space

20	Name:		Term:		Week:		Worksheet:		AWS

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

1.023 _____

40.961 _____

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

1.**7**6 = _____ = _____ 7.2**8** = _____= _____

151.9 = _____ = _____ **1**9.34 = _____ = _____

(3) **Convert** these **mixed numbers** to **improper fractions**. *Example:* $4^2/_3 = {}^{14}/_3$

$3^7/_8$ = _____ $4^4/_9$ = _____

$5^4/_5$ = _____ $6^2/_{11}$ = _____

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

$^1/_4$ = _____ $^1/_3$ = _____ $^4/_5$ = _____

$^7/_8$ = _____ $^1/_{20}$ = _____ $^3/_{100}$ = _____

(5) **Adding** decimals.

46.2 + 41 + _____ = 89.983

5.53 + _____ + 47 = 314.2

41 + 9.27 + _____ = 176.0

167.5
8.1
3252.3
+ 42.6
_____

(6) **Subtracting** decimals.

32.86 - _____ = 2.516

_____ - 26.08 = 97.4

2157.3 - _____ = 19.706

155.39
-
63.51
_____

(7) **Multiplying** decimals.

4.89
x 0.5
_____

23.7
x 0.06
_____

0.589
x 4.8
_____

(8) **Dividing** large numbers using 'tidy' numbers.
Example: 195 ÷ 5 = (200 ÷ 5) - (5 ÷ 5) = 20 - 1 = 19

232 ÷ 8 = (_____ ÷ _____) - (_____ ÷ _____)

= _____ - _____ = _____

Working Space

21 Name: Term: Week: Worksheet: AWS

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

562 × 10 = _____ 1.2 × 1000 = _____

3.4 × 1000 = _____ 0.79 × 100 = _____

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

231 + 89 + 412 = _____ + _____ + _____ = _____

6539 - 795 = _____ - _____ = _____

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

√144 = _____ √81 = _____

√225 = _____ √400 = _____

(4) **Convert** these **percentage** to **decimals**.

70% = _____ 39% = _____ 0.9% = _____

420% = _____ 8% = _____ $66\frac{2}{3}$% = _____

(5) **Adding** large numbers.

9309 + 63 + 808 = _____

2631 + 38274 + 699 = _____

5205 + 678 + 14267 = _____

315
36825
457
+ 1780
_____

(6) **Subtracting** large numbers.

3578 - _____ = 2849

_____ - 4872 = 27967

29167 - _____ = 256691

12385
-
6789
_____

(7) **Multiplying** whole numbers.

4108
× 7
_____

2945
× 6
_____

1673
× 39
_____

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

$7\overline{)953}$ $5\overline{)6581}$

$4\overline{)719}$ $9\overline{)7068}$

Working Space

22 Name: Term: Week: Worksheet: AWS

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

$15 + 6 \times 9 =$ _____ $91 - 60 \div 15 =$ _____

$72 \div 8 + 7^2 =$ _____ $5(31 - 3 \times 8) =$ _____

(2) **Find** the **square** or **powers** of these numbers.

$5^2 =$ _____ $11^2 =$ _____

$10^3 =$ _____ $3^4 =$ _____

(3) **Convert** these **percentages** to **fractions**.

$33\frac{1}{3}\% =$ _____ $80\% =$ _____ $75\% =$ _____

$4\% =$ _____ $150\% =$ _____ $43\% =$ _____

(4) **Round** these numbers to **1 decimal place**.

3.94 = _____ 9.06 = _____

21.45 = _____ 6.128 = _____

(5) **Adding** large numbers.

734 + 68 + 2412 = _____

547 + _____ + 35 = 3412

71 + 942 + _____ = 1670

2571
83
31426
+ 625

(6) **Subtracting** large numbers.

3084 - 447 = _____

45780 - 7372 = _____

156273 - 5348 = _____

54806
- 7385

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

Example: 231 x 3 = (200 x 3) + (30 x 3) + (1 x 3) = 600 + 90 + 3 = 693

453 x 7 = (____ x ___) + (___ x ___) + (___ x ___)

= _____ + _____ + _____ = _____

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

Example: 145 ÷ 5 = (100 ÷ 5) + (45 ÷ 5) = 20 + 9 = 29

927 ÷ 9 = (_____ ÷ _____) + (_____ ÷ _____)

= _____ + _____ = _____

Working Space

(1) **Dividing** by **10**, **100** or **1000**.

245 ÷ 10 = _____ 5.76 ÷ 100 = _____

89.34 ÷ 100 = _____ 1047 ÷ 1000 = _____

(2) **Find** each **fraction** of these decimals.

$^1/_3$ of 14.4 = _____ $^2/_5$ of 6.5 = _____

$^3/_7$ of 6.3 = _____ $^4/_9$ of 0.72 = _____

(3) **Round** these numbers to **1 significant figure**.

2350 = _____ 69000 = _____

0.021 = _____ 0.0048 = _____

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

0.23 = _____ 0.66˙ = _____ 0.08 = _____

0.45 = _____ 3.50 = _____ 0.7 = _____

(5) **Adding** decimals.

72.6 + 4.853 + 42 = _____

4.7 + 223 + 34.98 = _____

6941 + 8.6 + 1.19 = _____

4.37
129.80
0.22
+ 85.08
_____

(6) **Subtracting** decimals.

723.8 - _____ = 71.53

_____ - 64.9 = 326.3

510.94 - _____ = 312.7

439.58
-
97.99
_____

(7) **Multiplying** decimals.

2.85
x 0.4
_____

61.54
x 0.07
_____

0.479
x 0.59
_____

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

Example: 195 ÷ 5 = (200 ÷ 5) - (5 ÷ 5) = 20 - 1 = 19

665 ÷ 7 = (_____ ÷ _____) - (_____ ÷ _____)

= _____ - _____ = _____

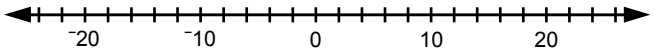
Working Space

(1) **Convert** these **mixed numbers** to **improper fractions**. *Example:* $4^2/_3 = {}^{14}/_3$

$2^3/_4$ = _____ $7^2/_9$ = _____

$4^1/_5$ = _____ $8^5/_6$ = _____

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



$^-18 + 13$ = _____ $^-19 + 23$ = _____

$20 + {}^-15$ = _____ $^-8 + {}^-9$ = _____

(3) **Add** or **subtract** these **fractions**

$^1/_2 + {}^1/_4$ = _____ $^2/_3 + {}^1/_4$ = _____

$^5/_6 - {}^1/_3$ = _____ $^4/_5 - {}^3/_{10}$ = _____

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

50% of 250 = _____ 20% of 140 = _____

$66\frac{2}{3}$% of 120 = _____ 75% of 240 = _____

(5) **Adding** decimals.

79.96 + 58.3 + 52 = _____

64.75 + _____ + 29 = 130.45

59 + 4.4 + _____ = 81.13

$$\begin{array}{r} 75.81 \\ 3.35 \\ 462.07 \\ +\ 0.98 \\ \hline \\ \hline \end{array}$$

(6) **Subtracting** decimals.

329.2 - 16.4 = _____

858.87 - 57.24 = _____

243.62 - 98.9 = _____

$$\begin{array}{r} 83.95 \\ -\ 7.82 \\ \hline \\ \hline \end{array}$$

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

Example: 296 x 3 = (300 x 3) - (4 x 3) = 900 - 12 = 888

475 x 5 = (_____ x _____) - (_____ x _____)

= _____ - _____ = _____

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

$6\overline{)56.1}$ $9\overline{)5.708}$

$4\overline{)8.93}$ $7\overline{)82.43}$

Working Space

25 Name: Term: Week: Worksheet: AWS

(1) **Round** these numbers to **2 decimal places**.

4.637 = _____ 3.715 = _____

20.109 = _____ 9.1237 = _____

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

$\frac{12}{48}$ = ____ = ____ $\frac{18}{54}$ = ____ = ____

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

10% of 1.50 = _____ $33\frac{1}{3}$% of 2.10 = _____

40% of 21.80 = _____ 90% of 3.60 = _____

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

$^1/_3$ = _____ $^3/_5$ = _____ $^9/_{10}$ = _____

$^3/_{100}$ = _____ $^3/_{40}$ = _____ $^7/_8$ = _____

(5) **Adding** large numbers.

3713 + 712 + 43 = _____

521 + 76 + 424 = _____

92 + 194 + 4474 = _____

252
63
10936
+ 512

(6) **Subtracting** large numbers.

2836 - _____ = 1526

_____ - 2068 = 794

21753 - _____ = 17096

13359
-
6531

(7) **Multiplying** whole numbers.

795 x 5 = _____

413 x 6 = _____

290 x 32 = _____

(8) **Dividing** large numbers.

$2\overline{)576}$ $5\overline{)1725}$

$3\overline{)618}$ $4\overline{)2864}$

Working Space

26 Name: Term: Week: Worksheet: AWS

(1) **Solve** these **equations** with mixed number answers.

$7d + 19 = 71$ d = _____

$8k - 13 = 65$ k = _____

(2) **Add** or **subtract** these **fractions**

$^5/_6 + {}^1/_3$ = _____ $^3/_4 + {}^2/_5$ = _____

$^7/_9 - {}^1/_3$ = _____ $^4/_5 - {}^2/_3$ = _____

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

5 ___ 6 ___ 13 = 43 31 ___ 2 ___ 9 = 13

9 ___ 7 ___ 4 = 37 56 ___ 8 ___ 9 = 16

(4) **Convert** these **improper fractions** to **mixed numbers**.

$^{23}/_6$ = _____ $^{37}/_8$ = _____

$^{68}/_8$ = _____ $^{75}/_9$ = _____

(5) **Adding** large numbers.

464 + 18 + 2738 = _____

553 + _____ + 74 = 3412

71 + 942 + _____ = 1670

1765
81
35223
+ 462
_____
_____

(6) **Subtracting** large numbers.

1289 - 35 = _____

13247 - 695 = _____

23785 - 6321 = _____

5487
- 642
_____
_____

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

Example: 231 x 3 = (200 x 3) + (30 x 3) + (1 x 3) = 600 + 90 + 3 = 693

384 x 4 = (____ x ___) + (___ x ___) + (___ x ___)

= _____ + _____ + _____ = _____

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

Example: 145 ÷ 5 = (100 ÷ 5) + (45 ÷ 5) = 20 + 9 = 29

376 ÷ 4 = (_____ ÷ _____) + (_____ ÷ _____)

= _____ + _____ = _____

Working Space

27	Name:		Term:		Week:		Worksheet:		AWS

(1) What is the **place value** of the **BOLD** digit and what does it mean.

8.**6**3 = _____ = _____ 2.10**4** = _____= _____

1.9**4** = _____ = _____ **3**4.5 = _____ = _____

(2) **Round** these numbers to **2 significant figures**.

236900 = _____ 3541 = _____

0.0324 = _____ 0.0709 = _____

(3) **Complete** these ratios.

Example: The ratio 3:4 is the same as 6:8.

4:5 = _____ :40 9:_____ = 27:24

_____ :42 = 5:7 64:24 = 8:_____

(4) **Write** these **standard forms** as **numbers**.

Example: $520000 = 5.2 \times 10^5$ $0.00014 = 1.4 \times 10^{-4}$

2.3×10^4 = _____ 1.82×10^3 = _____

6.4×10^{-5} = _____ 4.38×10^{-2} = _____

(5) **Adding** decimals.

90.03 + 43.4 + 8.6 = _____

5.74 + 4 + 38.9 = _____

91 + 1.96 + 54.3 = _____

291.8
2.4
5341.0
+ 38.8
_____

(6) **Subtracting** decimals.

471.1 - _____ = 71.9

_____ - 46.38 = 509.63

642.17 - _____ = 182.57

193.35
-
88.79
_____

(7) **Multiplying** decimals.

38.5
x 4
_____

7.29
x 6
_____

5.14
x 7.3
_____

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

Example: 195 ÷ 5 = (200 ÷ 5) - (5 ÷ 5) = 20 - 1 = 19

224 ÷ 8 = (_____ ÷ _____) - (_____ ÷ _____)

= _____ - _____ = _____

Working Space

(1) **Solve** these **equations** with mixed number answers.

7d + 19 = 102 d = _____

8k - 23 = 78 k = _____

(2) **Write** these **numbers** in **standard form**.

Example: 520000 = 5.2×10^5 0.00014 = 1.4×10^{-4}

610000 = _____ 0.000034 = _____

00.0792 = _____ 5180000 = _____

(3) A car is travelling at 90 kilometres per hour. How far will the car travel in ....

3 hours _____

5 hours _____

1.5 hours _____ ?

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

0.5 = _____ 0.48 = _____ 0.05 = _____

0.75 = _____ 0.66˙ = _____ 0.002 = _____

(5) **Adding** decimals.

72.96 + 58.3 + 59 = _____

69.75 + _____ + 24 = 130.54

59 + 4.4 + _____ = 81.31

$$\begin{array}{r} 73.81 \\ 0.35 \\ 462.08 \\ +\ \ 5.97 \\ \hline \\ \hline \end{array}$$

(6) **Subtracting** decimals.

326.2 - 19.4 = _____

587.27 - 58.84 = _____

289.62 - 65.9 = _____

$$\begin{array}{r} 58.84 \\ -\ 7.28 \\ \hline \\ \hline \end{array}$$

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

Example: 296 x 3 = (300 x 3) - (4 x 3) = 900 - 12 = 888

386 x 5 = (_____ x _____) - (_____ x _____)

= _____ - _____ = _____

(8) **Dividing** decimals.

$3\overline{)1.98}$ $4\overline{)34.08}$

$6\overline{)29.4}$ $7\overline{)2.002}$

Working Space

29 Name: Term: Week: Worksheet: AWS

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

45 + 84 ÷ 7 = _____ 180 - 7 × 15 = _____

3 × 9 + 4^2 = _____ 4(4 + 7 × 3) = _____

(2) **Complete** these ratios.

Example: The ratio 3:4 is the same as 6:8.

27:18 = _____ :2 7:_____ = 28:36

_____ :8 = 3:24 40:75 = 8:_____

(3) **Write** these **standard forms** as **numbers**.

Example: 520000 = 5.2×10^5 0.00014 = 1.4×10^{-4}

5.6×10^3 = _____ 6.3×10^5 = _____

8.1×10^{-4} = _____ 9.05×10^{-3} = _____

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

$^1/_2$ = _____ $^2/_5$ = _____ $^5/_8$ = _____

$^2/_3$ = _____ $^7/_{10}$ = _____ $^1/_{20}$ = _____

(5) **Adding** large numbers.

822 + 4765 + 34 = _____

34 + 482 + 3279 = _____

6149 + 81 + 916 = _____

938
12587
20
+ 402

(6) **Subtracting** large numbers.

7283 - _____ = 7135

_____ - 694 = 3236

11127 - _____ = 8090

3959
-
3798

(7) **Multiplying** whole numbers.

931 × 8 = _____

752 × 9 = _____

274 × 76 = _____

(8) **Dividing** large numbers, some with remainders.

6)474 8)5792

7)553 9)8439

30 Name: Term: Week: Worksheet: AWS

(1) **Write** these **numbers** in **standard form**.

Example: 520000 = 5.2×10^5 0.00014 = 1.4×10^{-4}

45000000 = _____ 0.0063 = _____

0.000592 = _____ 674000 = _____

(2) **Find** the **percentage** of these decimals.

50% of 7.2 = _____ $33\frac{1}{3}$% of 12.9 = _____

25% of 6.4 = _____ 90% of 6.0 = _____

(3) Meat costs $16.60 per kilogram.
How much would it cost to buy ....

2 kgs of meat _____

0.5 kgs of meat _____

1.25 kgs of meat _____ ?

(4) **Add** +, −, × or ÷ to make each statement true. Remember .... BEDMAS

6 ___ 7 ___ 9 = 51 80 ___ 5 ___ 4 = 60

17 ___ 32 ___ 4 = 25 22 ___ 8 ___ 3 = 46

(5) **Adding** large numbers.

699 + 4613 + 70 = _____

76 + _____ + 3171 = 3901

2389 + 58 + _____ = 3049

949
3273
60
+ 541
_____

(6) **Subtracting** large numbers.

1582 - 727 = _____

25073 - 902 = _____

74075 - 8516 = _____

16325
- 945
_____

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

Example: 231 x 3 = (200 x 3) + (30 x 3) + (1 x 3) = 600 + 90 + 3 = 693

583 x 7 = (____ x ___) + (___ x ___) + (___ x ___)

= _____ + _____ + _____ = _____

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

Example: 145 ÷ 5 = (100 ÷ 5) + (45 ÷ 5) = 20 + 9 = 29

954 ÷ 9 = (_____ ÷ _____) + (_____ ÷ _____)

= _____ + _____ = _____

Working Space

31 Name: Term: Week: Worksheet: AWS

(1) **Add** and **subtract** these integers.

$^{-}21 + 17 =$ _____ $^{-}18 - 14 =$ _____

$32 - {}^{-}15 =$ _____ $^{-}41 - {}^{-}29 =$ _____

(2) **Estimate** an answer by rounding the $$$ first.

$\$8.90 \times 5 =$ _____ $\$7.25 \times 9 =$ _____

$\$48.60 \div 7 =$ _____ $\$63.80 \div 8 =$ _____

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

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

$\sqrt{225} =$ _____ $\sqrt{400} =$ _____

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

0.25 = _____ 0.6 = _____ 0.05 = _____

0.9 = _____ $0.3^{\cdot}$ = _____ 1.5 = _____

(5) **Adding** decimals.

80.09 + 6.8 + 293.3 = _____

9.31 + 382.94 + 62.7 = _____

5.785 + 4.20 + 16.67 = _____

0.25
317.15
0.57
+ 68.80
_____

(6) **Subtracting** decimals.

468.8 - _____ = 395.9

_____ - 386.2 = 178.67

3926.7 - _____ = 3576.91

627.5
-
567.9
_____

(7) **Multiplying** decimals.

58.3
x 5
_____
_____

94.1
x 8
_____
_____

38.5
x 4.9
_____
_____
_____

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

Example: 195 ÷ 5 = (200 ÷ 5) - (5 ÷ 5) = 20 - 1 = 19

882 ÷ 9 = (_____ ÷ _____) - (_____ ÷ _____)

= _____ - _____ = _____

Working Space

32 Name: Term: Week: Worksheet: AWS

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

25 + 108 ÷ 9 = _____ 81 - 7 × 8 = _____

5 × 6 + 4^2 = _____ 3(10 + 5 × 6) = _____

(2) **Find** the **square** or **powers** of these numbers.

9^2 = _____ 7^2 = _____

10^3 = _____ 5^4 = _____

(3) **Convert** these **percentages** to **fractions**.

75% = _____ 40% = _____ 37% = _____

$66\frac{2}{3}$% = _____ 125% = _____ 6% = _____

(4) **Round** these numbers to **1 decimal place**.

4.96 = _____ 7.21 = _____

12.739 = _____ 32.847 = _____

(5) **Adding** decimals.

387.5 + 2.64 + 62.1 = _____

89.34 + _____ + 2.15 = 675.09

144.5 + 68.69 + _____ = 233.47

8.81
0.57
41.43
+ 3.90
_____

(6) **Subtracting** decimals.

402.8 - 48.4 = _____

247.70 - 66.32 = _____

2637.73 - 465.8 = _____

595.06
- 48.85
_____

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

Example: 296 x 3 = (300 x 3) - (4 x 3) = 900 - 12 = 888

596 x 6 = (_____ x _____) - (_____ x _____)

= _____ - _____ = _____

(8) **Dividing** decimals.

$6\overline{)4.44}$ $7\overline{)3.136}$

$8\overline{)41.6}$ $9\overline{)28.62}$

Working Space

(1) **Convert** these **mixed numbers** to **improper fractions**.

$2^{3}/_{5}$ = _____ $6^{8}/_{9}$ = _____

$7^{5}/_{8}$ = _____ $9^{2}/_{3}$ = _____

(2) **Find** each **fraction** of these decimals.

$^{2}/_{3}$ of 1.2 = _____ $^{5}/_{8}$ of 41.6 = _____

$^{3}/_{4}$ of 2.4 = _____ $^{3}/_{7}$ of 23.8 = _____

(3) **Round** these numbers to **1 significant figure**.

63500 = _____ 946 = _____

0.087 = _____ 0.00639 = _____

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

0.67 = _____ 0.3˙ = _____ 0.95 = _____

0.75 = _____ 0.05 = _____ 1.2 = _____

(5) **Adding** large numbers.

347 + 1129 + 53 = _____

30 + 998 + 2745 = _____

1426 + 70 + 298 = _____

570
67
2985
+ 315
_____

(6) **Subtracting** large numbers.

2896 - _____ = 2032

_____ - 538 = 4149

6353 - _____ = 3928

3857
-
2461
_____

(7) **Multiplying** whole numbers.

926
x 4
_____

623
x 9
_____

583
x 67
_____

(8) **Dividing** large numbers.

$9\overline{)351}$

$6\overline{)3162}$

$8\overline{)608}$

$7\overline{)4613}$

Working Space

34 Name: Term: Week: Worksheet: AWS

(1) **Round** these numbers to **2 decimal places**.

0.327 = _____ 0.0639 = _____

30.109 = _____ 140.275 = _____

(2) **Find** the **percentage** of these decimals.

10% of 6.8 = _____ $33\frac{1}{3}$% of 15.6 = _____

25% of 4.96 = _____ 5% of 8.4 = _____

(3) **Add** or **subtract** these **fractions**

$^1/_2 + {}^3/_4$ = _____ $^2/_3 + {}^5/_6$ = _____

$^2/_3 - {}^1/_6$ = _____ $^7/_8 - {}^1/_4$ = _____

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

$^2/_5$ = _____ $^3/_4$ = _____ $^7/_8$ = _____

$^1/_{20}$ = _____ $^9/_{10}$ = _____ $^3/_2$ = _____

(5) **Adding** large numbers.

412 + 1354 + 82 = _____

98 + _____ + 1367 = 1672

2345 + 82 + _____ = 2613

357
3168
28
+ 514
_____

(6) **Subtracting** large numbers.

4037 - 387 = _____

5903 - 917 = _____

10283 - 827 = _____

42000
- 864
_____

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

Example: 231 x 3 = (200 x 3) + (30 x 3) + (1 x 3) = 600 + 90 + 3 = 693

756 x 7 = (____ x ___) + (___ x ___) + (___ x ___)

= _____ + _____ + _____ = _____

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

Example: 145 ÷ 5 = (100 ÷ 5) + (45 ÷ 5) = 20 + 9 = 29

1664 ÷ 8 = (_____ ÷ _____) + (_____ ÷ _____)

= _____ + _____ = _____

Working Space

35 Name: Term: Week: Worksheet: AWS

(1) **Solve** these **equations** with mixed number answers.

4(d + 7) = 53 d = _____

5(k - 6) = 19 k = _____

(2) **Add** and **subtract** these integers.

$^{-}$45 + 62 = _____ $^{-}$34 - 18 = _____

25 - $^{-}$17 = _____ $^{-}$43 - $^{-}$27 = _____

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

50% of 1.7 = _____ 5% of 6.4 = _____

$66\frac{2}{3}$% of 5.4 = _____ 80% of 3.5 = _____

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

65% = _____ 8% = _____ 37% = _____

80% = _____ $33\frac{1}{3}$% = _____ 150% = _____

(5) **Adding** decimals.

30.84 + 556.73 + 9.2 = _____

293.29 + 6.1 + 74.58 = _____

4.1 + 39.6 + 628.7 = _____

```
  9.5
4133.5
  71.5
+ 621.1
-------
```

(6) **Subtracting** decimals.

271.34 - _____ = 187.84

_____ - 21.53 = 457.20

1788.4 - _____ = 125.87

```
496.13
-
------
443.49
------
```

(7) **Multiplying** decimals.

```
 73.6
  x 5
-----
-----
```

```
 9.03
  x 8
-----
-----
```

```
 41.7
x 6.9
-----
-----
-----
-----
```

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

Example: 195 ÷ 5 = (200 ÷ 5) - (5 ÷ 5) = 20 - 1 = 19

672 ÷ 7 = (_____ ÷ _____) - (_____ ÷ _____)

= _____ - _____ = _____

Working Space

(1) A car is travelling at 90 kilometres per hour.
How far will the car travel in ....

4 hours _____

7 hours _____

2.25 hours _____ ?

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

$\frac{24}{48}$ = ____ = ____ $\frac{32}{72}$ = ____ = ____

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

6 ___ 3 ___ 11 = 29 45 ___ 7 ___ 4 = 17

36 ___ 6 ___ 4 = 12 21 ___ 56 ___ 8 = 14

(4) **Convert** these **improper fractions** to **mixed numbers**

$^{45}/_{6}$ = _____ $^{50}/_{7}$ = _____

$^{39}/_{9}$ = _____ $^{63}/_{8}$ = _____

(5) **Adding** decimals.

24.6 + 317.2 + 3.65 = _____

144.5 + _____ + 2.75 = 157.67

6.89 + 49.3 + _____ = 302.54

$$\begin{array}{r} 341.9 \\ 32.9 \\ 5150.8 \\ +\ \ 27.7 \\ \hline \\ \hline \end{array}$$

(6) **Subtracting** decimals.

159.45 - 6.27 = _____

75.782 - 2.36 = _____

942.0 - 474.23 = _____

$$\begin{array}{r} 159.83 \\ -\ 86.96 \\ \hline \\ \hline \end{array}$$

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

Example: 296 x 3 = (300 x 3) - (4 x 3) = 900 - 12 = 888

585 x 8 = (_____ x _____) - (_____ x _____)

= _____ - _____ = _____

(8) **Dividing** decimals.

$4\overline{)3.32}$ $7\overline{)51.03}$

$9\overline{)81.9}$ $8\overline{)623.2}$

Working Space

(1) **Solve** these **equations** with mixed number answers.

8(d + 4) = 71 d = _____

7(k - 9) = 29 k = _____

(2) **Add** or **subtract** these **fractions**

$^3/_4 + {}^3/_4$ = _____ $^2/_3 + {}^4/_5$ = _____

$^7/_8 - {}^1/_4$ = _____ $^3/_4 - {}^2/_3$ = _____

(3) **Complete** these ratios.

5:8 = _____ :32 14:_____ = 7:9

_____ :3 = 18:6 9:5 = 54:_____

(4) **Write** these **standard forms** as **numbers**.

1.2×10^4 = _____ 5.7×10^5 = _____

3.4×10^{-3} = _____ 6.5×10^{-2} = _____

(5) **Adding** large numbers.

1732 + 42 + 953 = _____

397 + 5890 + 49 = _____

31 + 389 + 6702 = _____

5852
770
36
+ 519
_____

(6) **Subtracting** large numbers.

6892 - _____ = 2060

_____ - 897 = 9144

7347 - _____ = 2389

6347
-
1422
_____

(7) **Multiplying** whole numbers.

829
x 4
_____

475
x 6
_____

608
x 37
_____

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

3)487

6)2387

5)784

8)9217

Working Space

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

7 + 24 ÷ 6 - 9 = _____ 4 × 5 - 28 ÷ 7 = _____

9^2 - 5 × 6 + 7 = _____ 3(4 + 27 ÷ 9) = _____

(2) **Round** these numbers to **2 significant figures**.

452000 = _____ 95190 = _____

0.00637 = _____ 0.1084 = _____

(3) A car is travelling at 80 kilometres per hour.
How far will the car travel in ....

5 hours _____

4.5 hours _____

3.75 hours _____

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

$^3/_4$ = _____ $^2/_3$ = _____ $^2/_5$ = _____

$^1/_{20}$ = _____ $^7/_8$ = _____ $^3/_{50}$ = _____

(5) **Adding** large numbers.

21 + 3484 + 245 = _____

1876 + _____ + 93 = 2127

254 + 83 + _____ = 3162

953
4852
73
+ 611
_____

(6) **Subtracting** large numbers.

5720 - 773 = _____

7309 - 719 = _____

13493 - 839 = _____

27000
- 795
_____

(7) **Multiplying** large numbers using place value.
Example: 231 x 3 = (200 x 3) + (30 x 3) + (1 x 3) = 600 + 90 + 3 = 693

279 x 9 = (____ x ___) + (___ x ___) + (___ x ___)

= _____ + _____ + _____ = _____

(8) **Dividing** large numbers using multiples of 10.
Example: 145 ÷ 5 = (100 ÷ 5) + (45 ÷ 5) = 20 + 9 = 29

927 ÷ 9 = (_____ ÷ _____) + (_____ ÷ _____)

= _____ + _____ = _____

Working Space

39 Name: Term: Week: Worksheet: AWS

(1) **Add** or **subtract** these **fractions**

$3\frac{1}{4} + 4\frac{2}{3}$ = _____ $5\frac{1}{2} + 2\frac{3}{4}$ = _____

$1\frac{1}{4} - \frac{7}{8}$ = _____ $3\frac{1}{2} - 1\frac{2}{3}$ = _____

(2) **Write** these **numbers** in **standard form**.

960000 = _____ 0.0072 = _____

0.0051 = _____ 145000000 = _____

(3) **Write** these **standard forms** as **numbers**.

2.3×10^3 = _____ 9.3×10^4 = _____

1.4×10^{-4} = _____ 5.2×10^{-2} = _____

(4) **Add** +, −, × or ÷ to make each statement true. Remember .... BEDMAS

32 ___ 8 ___ 16 = 20 7 ___ 8 ___ 9 = 65

16 ___ 4 ___ 5 = 36 7 ___ 6 ___ 4 ___ 9 = 6

(5) **Adding** decimals.

5.4 + 67.38 + 305.92 = _____

47.85 + 239.61 + 2.9 = _____

167.6 + 2.8 + 49.3 = _____

53.31
2.10
533.14
+ 15.96
_____

(6) **Subtracting** decimals.

943.43 - _____ = 781.48

_____ - 35.12 = 634.92

2398.3 - _____ = 626.78

849.13
-
344.49
_____

(7) **Multiplying** decimals.

78.6 × 5 = _____

63.4 × 8 = _____

7.45 × 9.2 = _____

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

Example: 195 ÷ 5 = (200 ÷ 5) - (5 ÷ 5) = 20 - 1 = 19

368 ÷ 8 = (_____ ÷ _____) - (_____ ÷ _____)

= _____ - _____ = _____

Working Space

40 Name: Term: Week: Worksheet: AWS

(1) **Write** these **numbers** in **standard form**.

36000 = _____ 0.00459= _____

0.000148 = _____ 70000000 = _____

(2) **Complete** these ratios.

56:24 = _____ :3 63:_____ = 7:5

_____ :45 = 4:9 48:36 = 4:_____

(3) Meat costs $18.60 per kilogram.
How much would it cost to buy ....

2 kgs of meat _____

0.5 kgs of meat _____

1.25 kgs of meat _____ ?

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

$^{2}/_{3}$ = _____ $^{3}/_{5}$ = _____ $^{5}/_{100}$ = _____

$^{1}/_{50}$ = _____ $^{7}/_{1000}$ = _____ $^{5}/_{4}$ = _____

(5) **Adding** decimals.

42.6 + 336.2 + 1.75 = _____

415.4 + _____ + 7.25 = 721.76

3.83 + 44.9 + _____ = 203.45

47.8
5137.7
1.5
+ 352.9
_____

(6) **Subtracting** decimals.

537.41 - 8.25 = _____

92.316 - 6.74 = _____

675.00 - 213.64 = _____

3774.1
- 585.7
_____

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

586 x 6 = (_____ x _____) - (_____ x _____)

= _____ - _____ = _____

(8) **Dividing** decimals.

$4\overline{)3.84}$ $7\overline{)59.22}$

$5\overline{)89.5}$ $9\overline{)5.148}$

Number Knowledge Worksheet Answers

1

(1) **9**, 18, **27**, **36**, **45**, **54**, 63, **72**, 81, **90**, **99**, **108**, **117**, **126**, 135

(2)
230	680
1470	3250

(3) $^{8}/_{20}$ or $^{2}/_{5}$ $^{8}/_{24}$ or $^{1}/_{3}$

(4)
fraction	decimal	percentage
$^{1}/_{4}$	**0.25**	**25%**
$^{3}/_{5}$	**0.6**	60%
$^{7}/_{10}$	0.7	**70%**

(5)
3888		
1031		11763
4690		

(6)
1245		
12462		5165
23764		

(7) (300x4) + (40x4) + (8x4) = 1200 + 160 + 32 = 1392

(8)
378	255
204	671

2

(1) 0.029, 0.25, 2, 2.06, 20.04

(2) 2 = 2, 4, 6, 8, 10
5 = 5, 10, 15, 20, 25
7 = 7, 14, 21, 28, 35
10 = 10, 20, 30, 40, 50

(3)
600	900
1500	2200

(4)
0.5	0.8	0.25
0.37	0.75	0.08

(5)
3214	
2830	34705
657	

(6)
770	
3582	9188
1867	

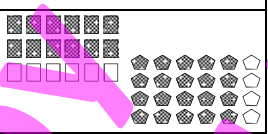
(7)
	2760
2895	18400
2046	21160

(8) (400 ÷ 4) + (36 ÷ 4) = 100 + 9 = 109

3

(1)
24	**32**
64	**72**
72	**80**

(2) 90 + 100 + 500 = 690
1300 - 800 = 500

(3) 

(4)
50%	75%	40%
67%	9%	90%

(5)
141.94	
48.64	5674.0
155.16	

(6)
286.8	
492.43	31.67
254.72	

(7) (400 x 5) - (32 x 5) = 2000 - 160 = 1840

(8)
0.56	9.52
5.9	0.386

4

(1) 602,729

(2)
6000	2000
32000	11000

(3)
4	$^{-}1$
4	$^{-}9$

(4)
36	121
9	225

(5)
190.26	
36.7	542.21
17.73	

(6)
75.2	
573.74	94.56
45.6	

(7)
		1.245
215.2	58.32	29.050
		30.295

(8) (240 ÷ 8) - (8 ÷ 8) = 30 - 1 = 29

5

(1)
49	56
28	35
84	91

(2)
10's = 90	100's = 200
1's = 5	10's = 40

(3)
18	8
18	24

(4)
$^{1}/_{2}$	$^{1}/_{4}$	$^{4}/_{5}$
$^{3}/_{4}$	$^{2}/_{25}$	$^{9}/_{25}$

(5)
5621	
3795	13947
7146	

(6)
855	
23261	12680
65459	

(7) (600x7) + (90x7) + (4x7) = 4200 + 630 + 28 = 4858

(8)
69	624
89	537r6

6

(1) 10 = 1, 2, 5, 10
15 = 1, 3, 5, 15
24 = 1, 2, 3, 4, 6, 8, 12, 24

(2) 360 + 200 + 100 = 660
4900 - 700 = 4200

(3)
$3^{3}/_{4}$	$3^{2}/_{7}$
$5^{4}/_{6}$	$4^{5}/_{9}$

(4)
0.5	0.25	$0.66^{\cdot}$
0.4	0.05	0.37

(5)
5382	
654	4823
602	

(6)
85	
3912	159
2963	

(7)
	4452
1544	51940
2313	56392

(8) (900 ÷ 9) + (45 ÷ 9) = 100 + 5 = 105

7

(1)
48	**54**	60
90	**96**	102
24	**30**	36

(2)
2.4	3.7
37.9	60.2

(3) $^{1}/_{10's} = {}^{4}/_{10}$ $^{1}/_{100's} = {}^{2}/_{100}$
$^{1}/_{100's} = {}^{8}/_{100}$ $^{1}/_{10's} = {}^{3}/_{10}$

(4)
9	4
8	12

(5)
380.19		
454.95		386.77
26.655		

(6)
254.4		
281.38		546.21
1171.93		

(7) (600 x 6) - (12 x 6) = 3600 - 72 = 3528

(8)
0.64	0.248
6.2	4.17

8

(1) 9.307
45.283

(2) $\frac{2}{3} = \frac{4}{6} = \frac{6}{9}$
$\frac{2}{5} = \frac{4}{10} = \frac{6}{15}$

(3)
0.14	7.15
50.34	23.01

(4)
50%	25%	40%
$66^{2}/_{3}$%	4%	$62^{1}/_{2}$%

(5)
452.24		
583.60		54.71
20.28		

(6)
72.9		
766.87		59.6
349.79		

(7)
	48.42
179.0	215.20
15.52	263.62

(8) (900 ÷ 9) - (27 ÷ 9) = 100 - 3 = 97

9

(1)	49 **56** 77 **84** 28 **35**	
(2)	12.2 + 5.8 = 18.0 14.8 - 9.1 = 5.7	
(3)	9 27 25 28	
(4)	5 0 $^{-}1$ $^{-}3$	
(5)	1529 3773 3937 1794	
(6)	3650 4986 41025 9456	
(7)	(600x7) + (40x7) + (5x7) = 4200 + 280 + 35 = 4515	
(8)	49 538 65 639	

10

(1)	two point three zero seven zero point zero six nine	
(2)	$^{1}/_{10's} = {}^{9}/_{10}$ $^{1}/_{100's} = {}^{8}/_{100}$ $^{1}/_{100's} = {}^{9}/_{100}$ $^{1}/_{10's} = {}^{6}/_{10}$	
(3)	$^{16}/_{5}$ $^{31}/_{4}$ $^{20}/_{3}$ $^{35}/_{8}$	
(4)	$^{1}/_{2}$ $^{2}/_{5}$ $^{3}/_{4}$ $^{47}/_{100}$ $^{16}/_{25}$ $^{3}/_{50}$	
(5)	1848 207 4067 186	
(6)	684 4777 1396 2335	
(7)	1076 5971 2934 51180 57151	
(8)	(1600 ÷ 8) + (48 ÷ 8) = 200 + 6 = 206	

11

(1)	d = 9 k = 8	
(2)	360 260 1850 2400	
(3)	49 81 144 400	
(4)	0.25 0.30 0.97 1.24 0.04 0.005	
(5)	596.77 373.97 4835.6 672.4	
(6)	143.18 63.422 72.87 467.77	
(7)	(600 x 8) - (7 x 8) = 4800 - 56 = 4744	
(8)	0.73 5.29 8.1 47.9	

12

(1)	0.0321, 0.329, 3.28, 32.4, 326	
(2)	$^{1}/_{10's} = {}^{1}/_{10}$ $^{1}/_{100's} = {}^{7}/_{100}$ $^{1}/_{100's} = {}^{8}/_{100}$ $^{1}/_{10's} = {}^{9}/_{10}$	
(3)	$^{2}/_{5}$ $^{2}/_{3}$ $^{1}/_{20}$ $^{17}/_{100}$ $^{3}/_{4}$ $^{5}/_{4}$ or $1\,^{1}/_{4}$	
(4)	600 900 1800 1500	
(5)	345.45 10.42 5553.3 246.35	
(6)	71.50 457.80 54.64 1625.43	
(7)	336.5 66.69 31.20 444.60 511.29	
(8)	(700 ÷ 7) - (35 ÷ 7) = 100 - 5 = 95	

13

(1)	81 **90** 45 **54** 108 **117**	
(2)	80 + 200 + 30 = 310 6300 - 300 = 6000	
(3)	0.8 9.4 8.6 22.4	
(4)	25% 90% 65% 0.4% 8% 275%	
(5)	2726 6266 7177 7122	
(6)	3947 6590 26421 11654	
(7)	(200x9) + (70x9) + (6x9) = 1800 + 630 + 54 = 2484	
(8)	142 r1 399 r4 136 r4 1150 r7	

14

(1)	17 19 23 60	
(2)	3000 9000 12000 24000	
(3)	42 13 9.6 28	
(4)	5 7 11 20	
(5)	3750 158 6489 2825	
(6)	4860 9997 4925 4947	
(7)	3928 5642 4470 24180 29822	
(8)	(900 ÷ 9) + (63 ÷ 9) = 100 + 7 = 107	

15

(1)	**40** 48 **112** 120 **80** 88	
(2)	1's = 9 100's = 300 $^{1}/_{100's} = {}^{5}/_{100}$ $^{1}/_{10's} = {}^{7}/_{10}$	
(3)	4.2 1.9 0.12 16.4	
(4)	$^{6}/_{10}$ or $^{3}/_{5}$ $^{17}/_{100}$ $^{1}/_{3}$ $^{2}/_{25}$ $3\,^{3}/_{4}$ $^{1}/_{200}$	
(5)	378.70 290.36 604.51 219.7	
(6)	539.16 76.436 3188.4 461.36	
(7)	(700 x 6) + (9 x 6) = 4200 + 54 = 4254	
(8)	0.86 3.46 15.7 0.672	

16

(1)	260 + 110 + 90 = 460 6800 - 500 = 6300	
(2)	560 2340 340 13600	
(3)	$3\,^{4}/_{5}$ $4\,^{5}/_{8}$ $4\,^{3}/_{6}$ $5\,^{3}/_{9}$	
(4)	30 pupils	
(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 51.660 52.808	
(8)	(900 ÷ 9) - (27 ÷ 9) = 100 - 3 = 97	

17

(1)	36 72 108	**45** **81** **117**	54 90 126
(2)	60.9 9.8		5.4 78.0
(3)	$1\frac{4}{7}$ $9\frac{1}{8}$		
(4)	0.5 0.75	0.4 0.7	$0.66\dot{}$ 0.03
(5)	9793 2935 5188		56740
(6)	2868 49243 29423		23167
(7)	(400x8) + (0x8) + (9x8) = 3200 + 0 + 72 = 3272		
(8)	98 r4 197 r3		342 r4 511 r8

18

(1)	100.208 67.0095		
(2)	$\frac{3}{5} = \frac{6}{10} = \frac{9}{15}$ $\frac{2}{7} = \frac{4}{14} = \frac{6}{21}$		
(3)	0.06 45.01		3.96 2.34
(4)	**8**:12 **4**:32		5:**4** 4:**3**
(5)	72 2801 765		54221
(6)	754 57374 4560		9456
(7)	1904 4653		42357 121020 163377
(8)	(400 ÷ 8) + (24 ÷ 8) = 50 + 3 = 53		

19

(1)	81 45 108	**90** **54** **117**	
(2)	40.3 + 8.7 = 49.0 32.5 - 7.3 = 25.2		
(3)	26.5 0.0348		7.36 0.412
(4)	$\frac{-1}{-3}$		$\frac{5}{-7}$
(5)	152.92 884.11 105.724		3617.63
(6)	124.5 37.77 2702.29		516.5
(7)	(900 x 9) - (45 x 9) = 8100 - 405 = 7695		
(8)	1.29 r3 29.1 r2		16.02 r2 0.936 r5

20

(1)	one point zero two three forty point nine six one		
(2)	$\frac{1}{10's} = \frac{7}{10}$ $\frac{1}{100's} = \frac{8}{100}$ 100's = 100 1's = 9		
(3)	$\frac{27}{8}$ $\frac{29}{5}$		$\frac{40}{9}$ $\frac{68}{11}$
(4)	25% 87.5%	33⅓% 5%	75% 3%
(5)	2.783 261.67 125.73		3470.5
(6)	30.344 123.48 2137.594		91.88
(7)	2.445 1.422		0.4712 2.3560 2.8272
(8)	(240 ÷ 8) - (8 ÷ 8) = 30 - 1 = 29		

21

(1)	5620 3400		1200 79
(2)	230 + 90 + 400 = 720 6500 - 800 = 5700		
(3)	12 15		9 20
(4)	0.7 4.2	0.39 0.08	0.009 $0.66\dot{}$
(5)	10180 41604 20150		39377
(6)	729 32839 3476		5596
(7)	28756 17670		15057 50190 65247
(8)	136 r1 179 r3		1316 r1 785 r3

22

(1)	69 58		87 35
(2)	25 1000		121 81
(3)	$\frac{1}{3}$ $\frac{4}{5}$ $\frac{3}{4}$ $\frac{1}{25}$ $1\frac{1}{2}$ $\frac{43}{100}$		
(4)	3.9 21.5		9.1 6.1
(5)	3214 2830 657		34705
(6)	2637 38408 150925		47421
(7)	(400x7) + (50x7) + (3x7) = 2800 + 350 + 21 = 3171		
(8)	(900 ÷ 9) + (27 ÷ 9) = 100 + 3 = 103		

23

(1)	24.5 0.8934		0.0576 1.047
(2)	4.8 2.7		2.6 0.32
(3)	2000 0.02		70000 0.005
(4)	23% 45%	$66\frac{2}{3}$% 350%	8% 70%
(5)	119.453 262.68 6950.79		219.47
(6)	652.27 391.2 198.24		341.59
(7)	1.140 4.3078		0.04311 0.23950 0.28261
(8)	(700 ÷ 7) - (35 ÷ 7) = 100 - 5 = 95		

24

(1)	$\frac{11}{4}$ $\frac{21}{5}$		$\frac{65}{9}$ $\frac{53}{6}$
(2)	$\frac{-5}{5}$		$\frac{4}{-17}$
(3)	$\frac{3}{4}$ $\frac{1}{2}$		$\frac{11}{12}$ $\frac{5}{10}$ or $\frac{1}{2}$
(4)	125 80		28 180
(5)	190.26 36.7 17.73		542.21
(6)	312.8 801.63 144.72		76.13
(7)	(500 x 5) - (25 x 5) = 2500 - 125 = 2375		
(8)	9.3 r3 2.23 r1		0.634 r2 11.77 r4

25

(1)	4.64 20.11		3.72 9.12
(2)	$\frac{12}{48} = \frac{6}{24} = \frac{3}{12}$ $\frac{18}{54} = \frac{9}{27} = \frac{3}{9}$		
(3)	0.15 8.72		0.7 3.24
(4)	$33\frac{1}{3}\%$ 3%	60% 7.5%	90% 87.5%
(5)	4468 1021 4760		11763
(6)	1310 2862 4657		6828
(7)	3975 2478		580 8700 9280
(8)	288 206		345 716

26

(1)	$d = 7\frac{3}{7}$ $k = 9\frac{6}{8}$		
(2)	$\frac{7}{6}$ or $1\frac{1}{6}$ $\frac{4}{9}$		$1\frac{3}{20}$ $\frac{2}{15}$
(3)	5 x 6 + 13 = 43 9 + 7 x 4 = 37 31 - 2 x 9 = 13 56 ÷ 8 + 9 = 16		
(4)	$3\frac{5}{6}$ $8\frac{4}{8}$		$4\frac{5}{8}$ $8\frac{3}{9}$
(5)	3220 2785 657		37531
(6)	1254 12552 17464		4845
(7)	(300x4) + (80x4) + (4x4) = 1200 + 320 + 16 = 1536		
(8)	(300 ÷ 4) + (76 ÷ 4) = 75 + 19 = 94		

27

(1)	$\frac{1}{10}$'s = $\frac{6}{10}$ $\frac{1}{100}$'s = $\frac{4}{100}$	$\frac{1}{1000}$'s = $\frac{4}{1000}$ 10's = 30	
(2)	240000 0.032		3500 0.071
(3)	32:40 30:42		9:8 8:3
(4)	23000 0.000064		1820 0.0438
(5)	142.03 48.64 147.26		5674.0
(6)	399.2 556.01 459.6		104.56
(7)	154.0 43.74		1.542 35.980 37.522
(8)	(240 ÷ 8) - (16 ÷ 8) = 30 - 2 = 28		

28

(1)	$d = 11\frac{6}{7}$ $k = 12\frac{5}{8}$		
(2)	6.1×10^5 7.92×10^{-2}		3.4×10^{-5} 5.18×10^6
(3)	270km 450km 135km		
(4)	$\frac{1}{2}$ $\frac{3}{4}$	$\frac{12}{25}$ $\frac{2}{3}$	$\frac{1}{20}$ $\frac{1}{500}$
(5)	190.26 36.79 17.91		542.21
(6)	306.8 528.43 223.72		51.56
(7)	(400 x 5) - (14 x 5) = 2000 - 70 = 1930		
(8)	0.66 4.9		8.52 0.286

29

(1)	57 43		75 100
(2)	3:2 1:8		7:9 8:15
(3)	5600 0.00081		630000 0.00905
(4)	0.5 $0.66\dot{}$	0.4 0.7	0.625 0.05
(5)	5621 3795 7146		13947
(6)	148 3930 3037		161
(7)	7448 6768		1644 19180 20824
(8)	79 79		724 937 r6

30

(1)	4.5×10^7 5.92×10^{-4}		6.3×10^{-3} 6.74×10^5
(2)	3.6 1.6		4.3 5.4
(3)	$33.20 $8.30 $20.75		
(4)	6 x 7 + 9 = 51 17 + 32 ÷ 4 = 25 80 - 5 x 4 = 60 22 + 8 x 3 = 46		
(5)	5382 654 602		4823
(6)	855 24171 65559		15380
(7)	(500x7) + (80x7) + (3x7) = 3500 + 560 + 21 = 4081		
(8)	(900 ÷ 9) + (54 ÷ 9) = 100 + 6 = 106		

31

(1)	4 47		-32 -12
(2)	$45 $7		$63 $8
(3)	7 15		12 20
(4)	$\frac{1}{4}$ $\frac{9}{10}$	$\frac{3}{5}$ $\frac{1}{3}$	$\frac{1}{20}$ $1\frac{1}{2}$
(5)	380.19 454.95 26.655		386.77
(6)	72.9 564.87 349.79		59.6
(7)	291.5 752.8		34.65 154.00 188.65
(8)	(900 ÷ 9) - (18 ÷ 9) = 100 - 2 = 98		

32

(1)	37 46		25 120
(2)	81 1000		49 625
(3)	$\frac{3}{4}$ $\frac{2}{3}$	$\frac{2}{5}$ $1\frac{1}{4}$	$\frac{37}{100}$ $\frac{3}{50}$
(4)	5.0 12.7		7.2 32.8
(5)	452.24 583.6 20.28		54.71
(6)	354.4 181.38 2171.93		546.21
(7)	(600 x 6) - (4 x 6) = 3600 - 24 = 3576		
(8)	0.74 5.2		0.448 3.18

33

(1)	$^{13}/_{5}$	$^{62}/_{9}$	
	$^{61}/_{8}$	$^{29}/_{3}$	
(2)	0.8	26	
	1.8	10.2	
(3)	60000	900	
	0.09	0.006	
(4)	67%	$33^{1}/_{3}$%	95%
	75%	5%	120%
(5)	1529		
	3773		3937
	1794		
(6)	864		
	4687		1396
	2425		
(7)	3704		4081
	5607		34980
			39061
(8)	39		527
	76		659

34

(1)	0.33		0.06
	30.11		140.28
(2)	0.68		5.2
	1.24		0.42
(3)	$1^{1}/_{4}$		$1^{3}/_{6}$
	$^{3}/_{6}$		$^{5}/_{8}$
(4)	0.4	0.75	0.875
	0.05	0.9	1.5
(5)	1848		
	207		4067
	186		
(6)	3650		
	4986		41136
	9456		
(7)	(700x7) + (50x7) + (6x7) = 4900 + 350 + 42 = 5292		
(8)	(1600 ÷ 8) + (64 ÷ 8) = 200 + 8 = 208		

35

(1)	d = $6^{1}/_{4}$		
	k = $9^{4}/_{5}$		
(2)	17		$\bar{5}2$
	42		$\bar{1}6$
(3)	0.85		0.32
	3.6		2.8
(4)	0.65	0.08	0.37
	0.8	0.33$\dot{}$	1.5
(5)	596.77		
	373.97		4835.6
	672.4		
(6)	83.5		
	478.73		52.64
	1662.53		
(7)	36.8		37.53
	72.24		250.20
			287.73
(8)	(700 ÷ 7) - (28 ÷ 7) = 100 - 4 = 96		

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(1)	360km		
	630km		
	202.5km		
(2)	$\frac{24}{48}$ = $\frac{12}{24}$ = $\frac{6}{12}$		
	$\frac{32}{72}$ = $\frac{16}{36}$ = $\frac{8}{18}$		
(3)	6 x 3 + 11 = 29		
	36 - 6 x 4 = 12		
	45 - 7 x 4 = 17		
	21 - 56 ÷ 8 = 14		
(4)	$7^{3}/_{6}$		$7^{1}/_{7}$
	$4^{3}/_{9}$		$7^{7}/_{8}$
(5)	345.45		
	10.42		5553.3
	246.35		
(6)	153.18		
	73.422		72.87
	467.77		
(7)	(600 x 8) - (15 x 8) = 4800 - 120 = 4680		
(8)	0.83		7.29
	9.1		77.9

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(1)	d = $4^{7}/_{8}$		
	k = $13^{1}/_{7}$		
(2)	$1^{2}/_{4}$		$1^{7}/_{15}$
	$^{5}/_{8}$		$^{1}/_{12}$
(3)	**20**:32		14:**18**
	9:3		54:**30**
(4)	12000		570000
	0.0034		0.065
(5)	2727		
	6336		7177
	7122		
(6)	4832		
	10041		4925
	4958		
(7)	3316		4256
	2850		18240
			22490
(8)	162 r1		397 r5
	156 r4		1152 r1

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(1)	2		16
	58		21
(2)	450000		95000
	0.0064		0.11
(3)	400km		
	360km		
	300km		
(4)	75%	66⅔%	40%
	5%	87.5%	6%
(5)	3750		
	158		6489
	2825		
(6)	4947		
	6590		26205
	12654		
(7)	(200x9) + (70x9) + (9x9) = 1800 + 630 + 81 = 2511		
(8)	(900 ÷ 9) + (27 ÷ 9) = 100 + 3 = 103		

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(1)	$7^{11}/_{12}$		$8^{1}/_{4}$
	$^{3}/_{8}$		$1^{5}/_{6}$
(2)	9.6×10^{5}		7.2×10^{-3}
	5.1×10^{-3}		1.45×10^{8}
(3)	2300		93000
	0.00014		0.052
(4)	32 ÷ 8 + 16 = 20		
	16 + 4 x 5 = 36		
	7 x 8 + 9 = 65		
	7 x 6 - 4 x 9 = 6		
(5)	378.7		
	290.35		604.51
	219.7		
(6)	161.95		
	670.04		504.64
	1771.52		
(7)	39.3		1.49
	507.2		67.05
			68.54
(8)	(400 ÷ 8) - (32 ÷ 8) = 50 - 4 = 46		

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(1)	3.6×10^{4}		4.59×10^{-3}
	1.48×10^{-4}		7.0×10^{7}
(2)	**7**:3		63:**45**
	20:45		4:**3**
(3)	$37.20		
	$9.30		
	$23.25		
(4)	0.66$\dot{}$	0.6	0.05
	0.02	0.007	1.25
(5)	380.55		
	299.11		5539.9
	154.72		
(6)	529.16		
	85.576		3188.4
	461.36		
(7)	(600 x 6) - (14 x 6) = 3600 - 84 = 3516		
(8)	0.96		8.46
	17.9		0.572