A Complete Guide to ...

Written in NZ for NZ

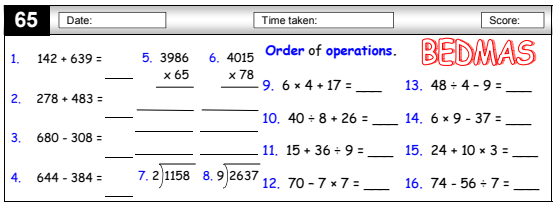
Daily Number Revision

Student Workbook

A Skills Mastery Programme

Book 6 - *Revised Edition*

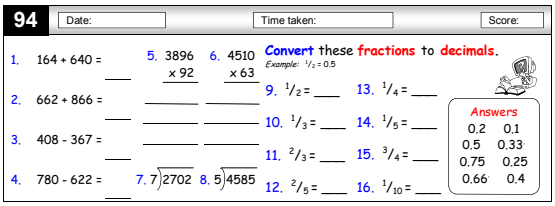
(Suggested use at Year 7)


65 Date: Time taken: Score:

1. 142 + 639 = ___
2. 278 + 483 = ___
3. 680 - 308 = ___
4. 644 - 384 = ___
5. 3986 × 65 ___
6. 4015 × 78 ___
7. 2)1158
8. 9)2637

Order of operations. BEDMAS

9. 6 × 4 + 17 = ___
10. 40 ÷ 8 + 26 = ___
11. 15 + 36 ÷ 9 = ___
12. 70 - 7 × 7 = ___
13. 48 ÷ 4 - 9 = ___
14. 6 × 9 - 37 = ___
15. 24 + 10 × 3 = ___
16. 74 - 56 ÷ 7 = ___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1. 164 + 640 = ___
2. 662 + 866 = ___
3. 408 - 367 = ___
4. 780 - 622 = ___
5. 3896 × 92 ___
6. 4510 × 63 ___
7. 7)2702
8. 5)4585

Convert these fractions to decimals. Example: 1/2 = 0.5

9. 1/2 = ___
10. 1/3 = ___
11. 2/3 = ___
12. 2/5 = ___
13. 1/4 = ___
14. 1/5 = ___
15. 3/4 = ___
16. 1/10 = ___

Answers: 0.2 0.1 0.5 0.33 0.75 0.25 0.66 0.4

This is ONE of a series of **7** resources that have been compiled using the **Achievement Objectives** from the appropriate level of the **NUMBER STRAND** as stated in the document ....

Mathematics in the New Zealand Curriculum

and information from the various resources of the ...

Numeracy Professional Development Project

ASSESSMENT ACTIVITIES INCLUDED

Name: _____ Class: _____

Author: A. W. Stark

AWS Publications Ltd

L4N1S

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This resource ...

*A Complete Guide to

Daily Number Revision

Student Write-On Workbook - Book 6

(Suggested use at Years 7)

is one of a series of **SEVEN** resources covering the **NUMBER STRAND Achievement Objectives** as outlined in the ***NZ Mathematics Curriculum***, plus the **Numeracy Facts** of addition, subtraction, multiplication and division.

The **Number Strand Achievement Objectives** and the **Numeracy Facts** are the building blocks for success in all other strands of the Mathematics Curriculum. These resources have been designed to systematically cover these facts and provide teachers / pupils with a methodical way of introducing, developing and revising the **Number Strand** and **Numeracy Facts** on a daily basis.

How do I find my way around this resource?

This resource has been divided into SECTIONS as listed below.

Section	Information
1 (Pages 3 & 4)	Information about this resource and notes for pupils & parents / care-givers
2 (Pages 6 to 9)	Column graphs numbered 1 to 150. Once each of group of questions has been completed, mark your answers and graph your results.
3 (Pages 11 - 40)	150 Daily Number Revision Tasks, with space on each to record date, time taken to complete and score.
4 (Pages 42 - 48)	Formal Assessment ideas and Two Parallel Assessment Worksheets
5 (Middle of book)	Answers for 150 Daily Number Revision Tasks and Assessments.

For more information about these and other resources, please contact ...

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About this resource:

The **aim** of this resource is to provide a **systematic way** of introducing and revising the **Numeracy Facts (Number Knowledge)** and various **NUMBER STRAND Curriculum Achievement Objectives**, so that your child will be able to recall these facts with **accuracy** and **speed**. Knowledge of these facts forms the foundation for a pupil's confidence and success in all areas of mathematics.

In **Section 3** of this workbook there are 5 sets of questions per A4 page. There are 8 questions on the **Numeracy Facts (Number Knowledge)** and 2 to 12 questions involving the **NUMBER STRAND Curriculum Achievement Objectives**. It is intended that **one set** is to be completed **per day for 30 weeks of the year**. This would establish a routine of working on learning / revising the Numeracy facts / Number Strand questions every day in a structured way.

Above each set of questions there is a place to record the **time taken** to complete the questions. You can do the timing one of two ways. Either time the first 12 questions only (Numeracy facts) so that you can compare daily results or time how long it takes to complete all questions per set. As your child's confidence improves, set a time limit to complete the questions, especially questions 1 to 12 (Numeracy facts).

It is important that your child gets **immediate feed-back** by way of having the questions marked and their results can be plotted on the column graphs supplied in **Section 2**. As an extension activity, similar questions as contained within each set could be made up and asked orally.

There are two **Parallel Assessment Activity Sheets** included in **Section 4** covering the Numeracy facts and Number Strand Objectives that can be used as **pre or post assessments** to determine your child's prior numeracy / number strand skill level or to show improvement that has been made. For more information about assessment, see page 41.

Answers are provided for all questions in Books 2 to 7.

Numeracy / Number Strand activities in Book 6 (Year 7)

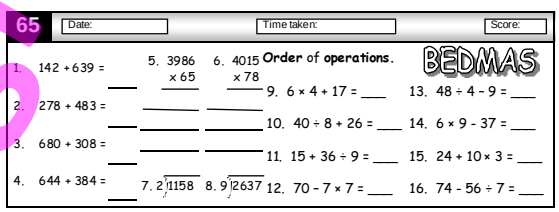
Books 6 (L4N1) contains 30 A4 sized activity sheets. On each activity sheet there are 5 sets of 10 to 20 questions. The following activities are included in these resources.

☑ **Numeracy Facts:**

- **Adding** 2-digit numbers **involving no carrying / carrying**.
- **Subtracting** 2 or 3-digit numbers with **no renaming / renaming**.
- Revising **ALL multiplication & division facts** from **2x** to **10x**.

☑ **Number Strand:**

- Finding **prime numbers**, **multiples** and **factors** for a given number.
- Finding **squares** and **square roots**.
- **Reading** and **writing** 2 or 3-digit whole numbers and decimal numbers in words and as numerals.
- **Ordering** whole numbers and decimals.
- **Rounding** numbers to the nearest **$1**, **10**, **$10**, **100** or **$100**.
- **Rounding** and finding **estimated** answers.
- Adding, subtracting, multiplying and dividing money.
- Word problems involving all **four numeracy skills**.
- **Place value** in money totals.
- 1's, 10's & 100's **place value** in 3-digit numbers.
- $^1/_{10}$'s, $^1/_{100}$'s, 1's, 10's & 100's **place value** in decimal numbers.
- Understanding & working with **fractions**.
- Matching **equivalent fractions**.
- Calculating **equivalent fractions**.
- Calculating **temperature changes**.
- **Adding** and **subtracting** simple **integers**.
- Converting between **fractions**, **decimals** and **percentages**.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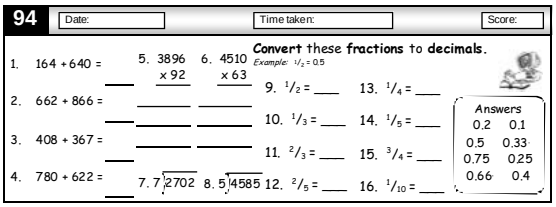
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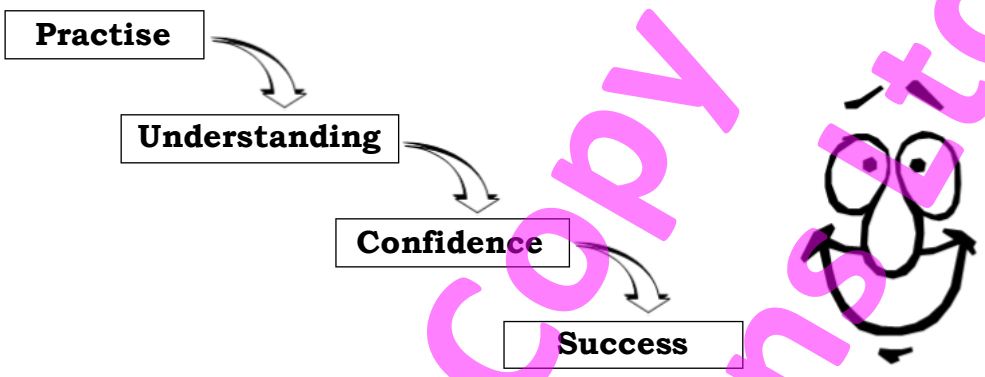
13. $^1/_4$ = ___ 14. $^1/_5$ = ___ 15. $^3/_4$ = ___ 16. $^1/_{10}$ = ___
7. 7)2702 8. 5)4585
Answers: 0.2 0.1 0.5 0.33 0.75 0.25 0.66 0.4

Note to Students:

I am sure you would love not to have to do homework. However, we will only get better at many things we do or learn, if we practise. I am sure you have heard the old saying 'practice makes perfect'.

In class you are shown and taught lots of new ideas. The reason for doing your homework is to practise what you have been taught in class. If you can do it on your own at home, or maybe with a little help from someone at home, then it shows you have remembered what you were shown in class.



No-one can make you learn. Your teachers, parents / caregivers and friends can help, but at the end of the day it's up to you. You do not have to always get it right, as long as you have tried to do the very best you can. Remember to ask for help if you do not understand or if you are not sure of what you have to do.

This resource has been written to help make doing your homework easier for both you and your teacher.

Good luck.

Note to Parents / Caregivers:

You may not have found mathematics easy when you were at school nor do you have to be good at it. All you have to do is encourage your son / daughter to do the very best he / she can. We cannot ask more from our children, than they are able to give. Try to be realistic with your own expectations of how well you think they should be doing at school.

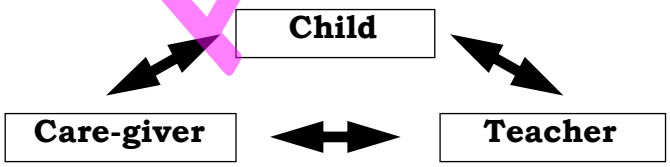
To help your son / daughter, here are some ideas ...

- ☑ Provide a place where they can work quietly without too many distractions. Background music is okay, but television is too distracting because of the pictures.
- ☑ Provide them with the equipment they need.
- ☑ Help them work out when is the best time to do their homework, encouraging them to establish routines. Remember they do need some time off to enjoy themselves, so do not expect them to work all the time.
- ☑ Give them plenty of encouragement and praise. Mark their work and encourage them to complete each column graph to plot their results.

Our children need our support and encouragement if they are to do well. If your son / daughter is having a lot of trouble understanding the work, it may be a good idea to contact their teacher to talk about the best way you can help.

Good luck.

Successful learning requires teamwork.



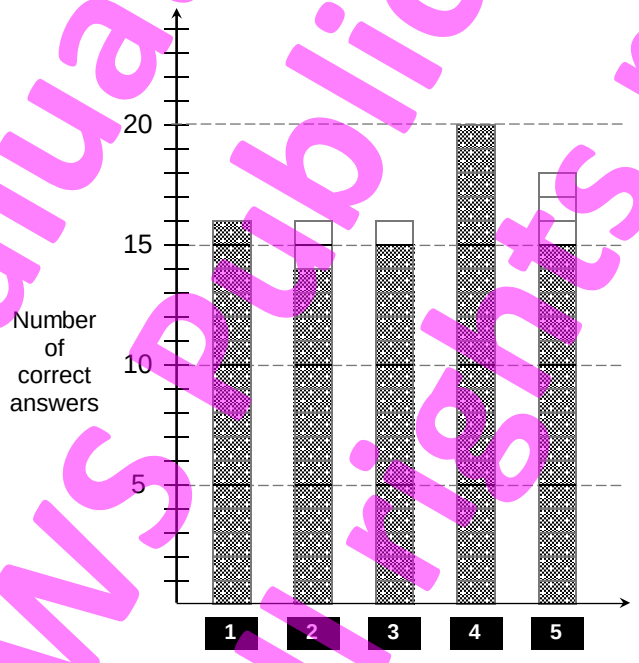
Column Graph Masters

Use the column graphs on the following pages to plot your child's progress.

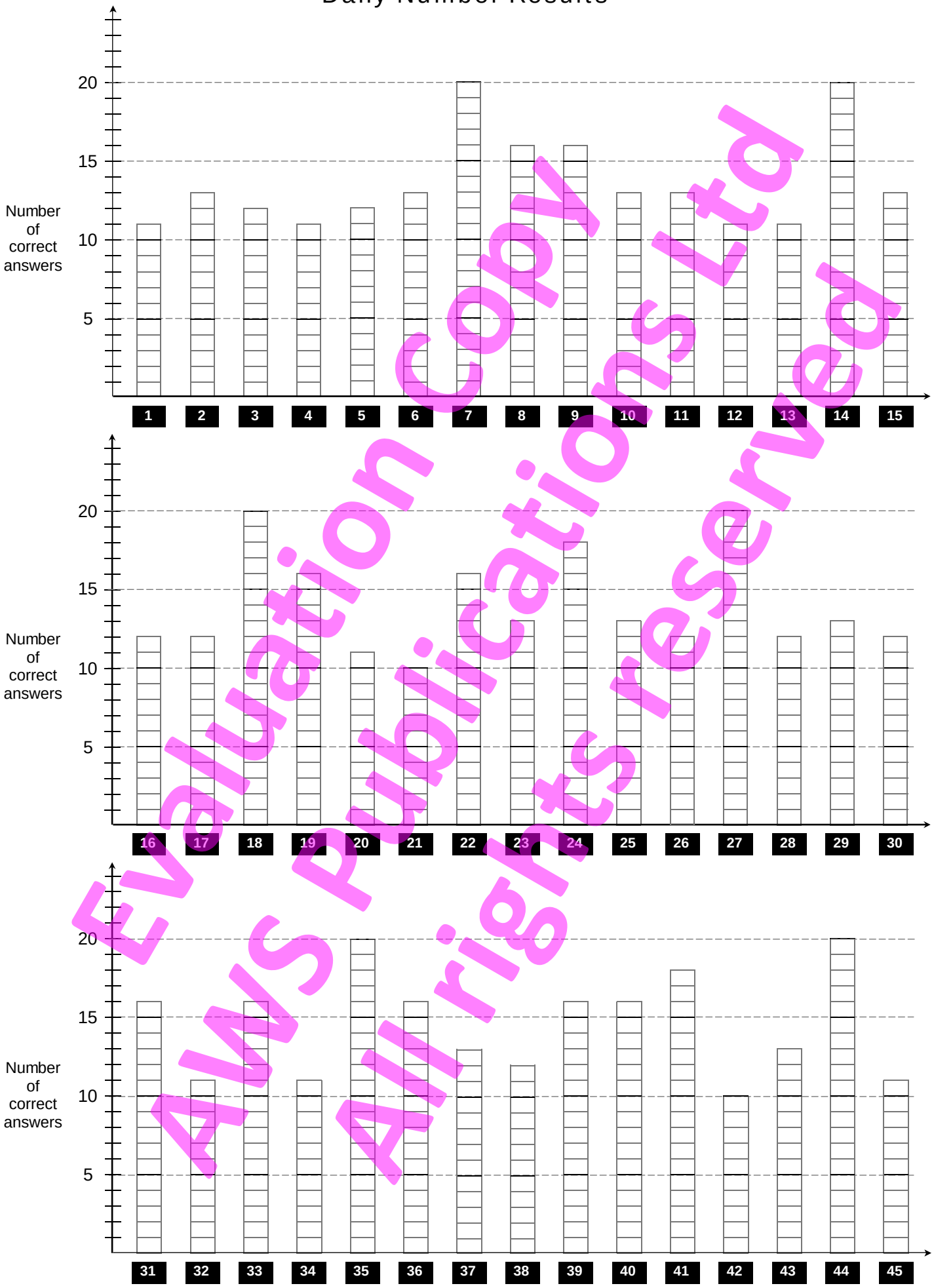
Mark each set of questions, then graph the results.

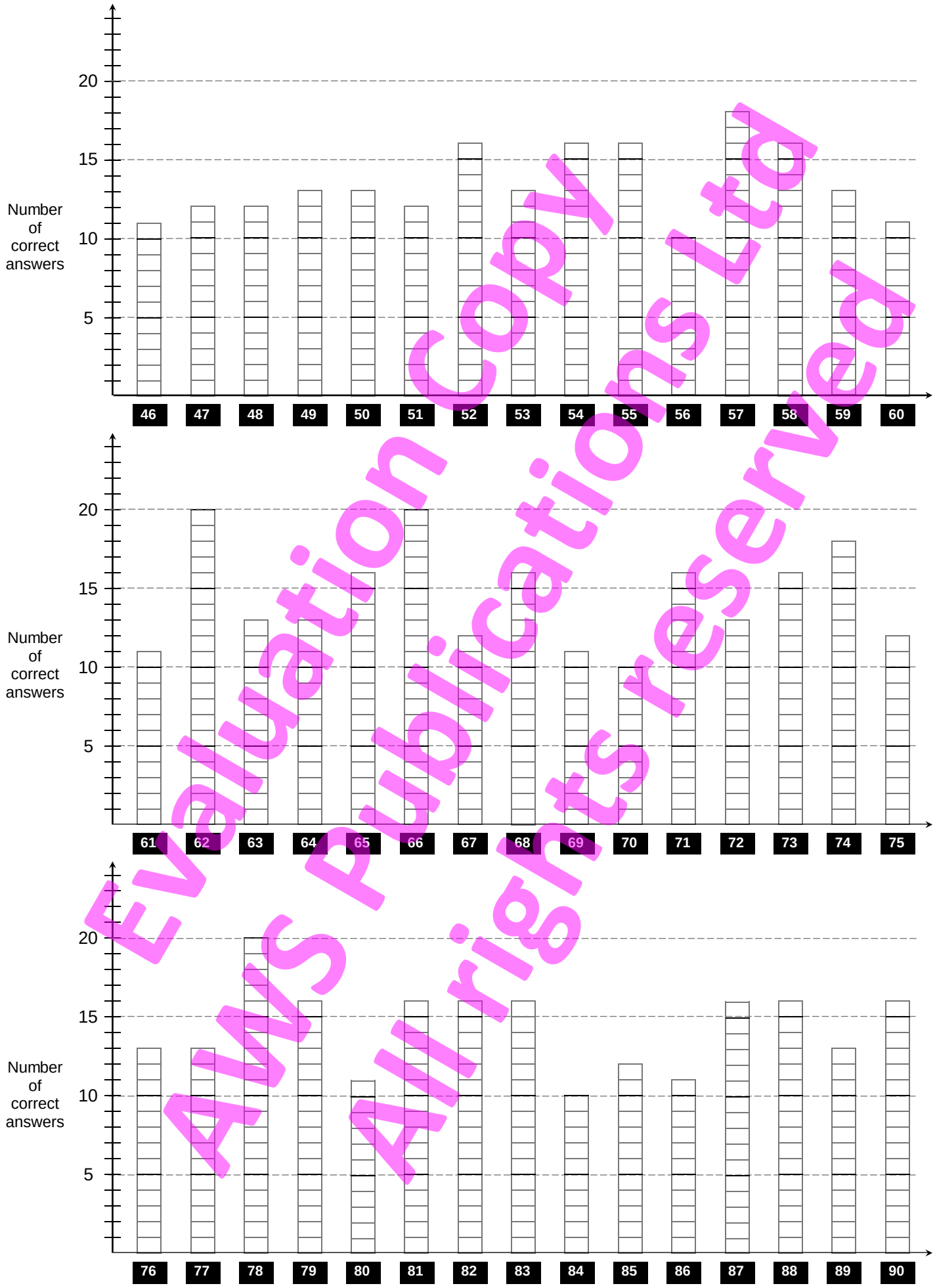
Graphing the results gives visual feedback.

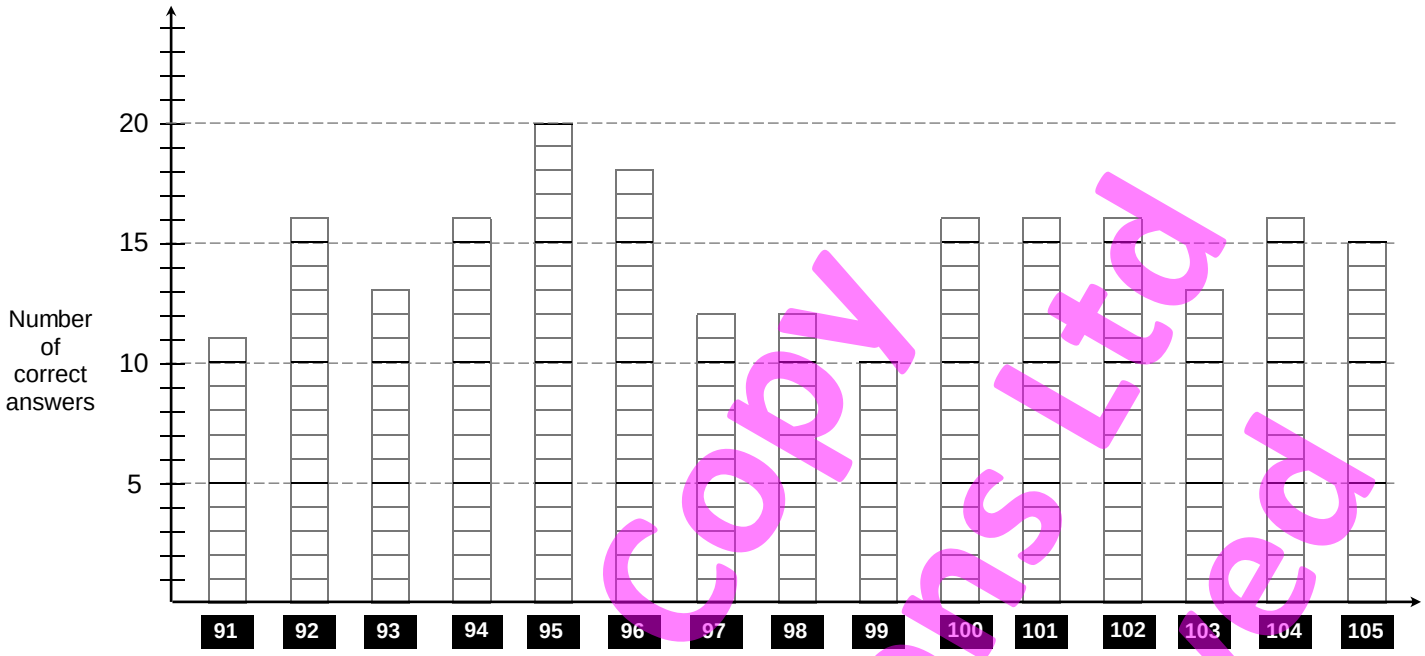
Example:

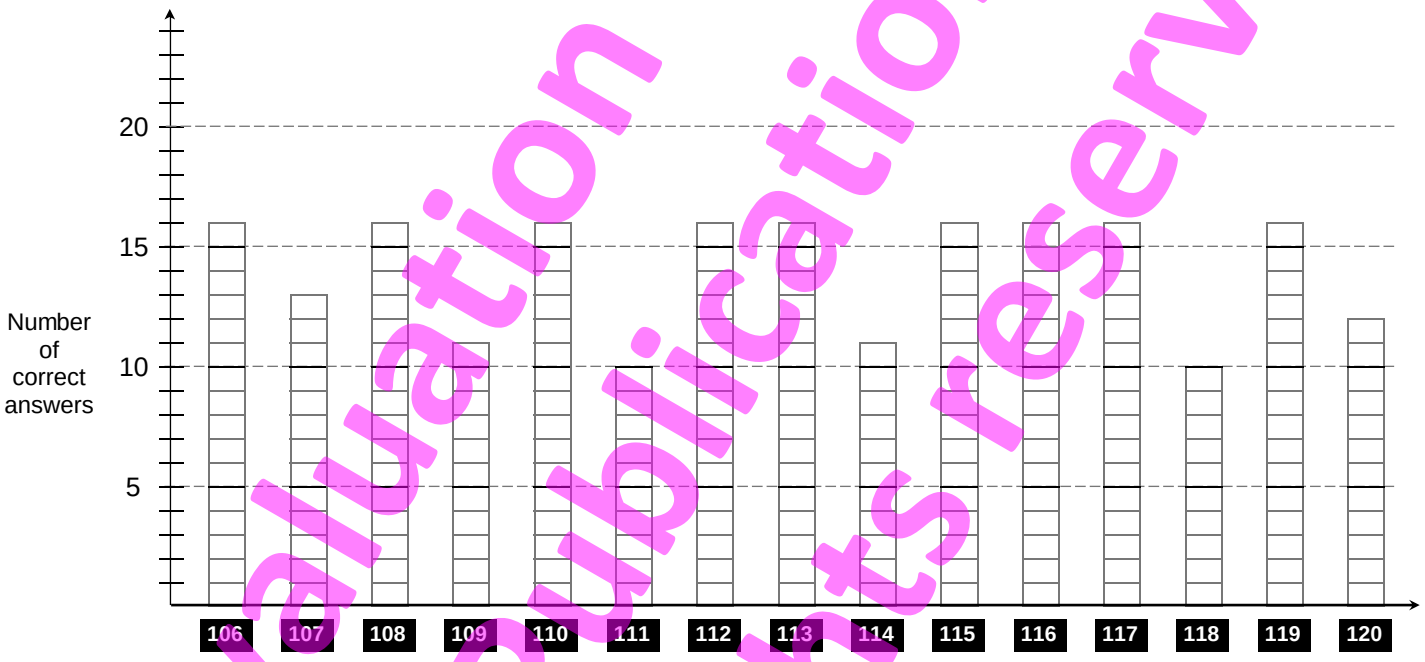


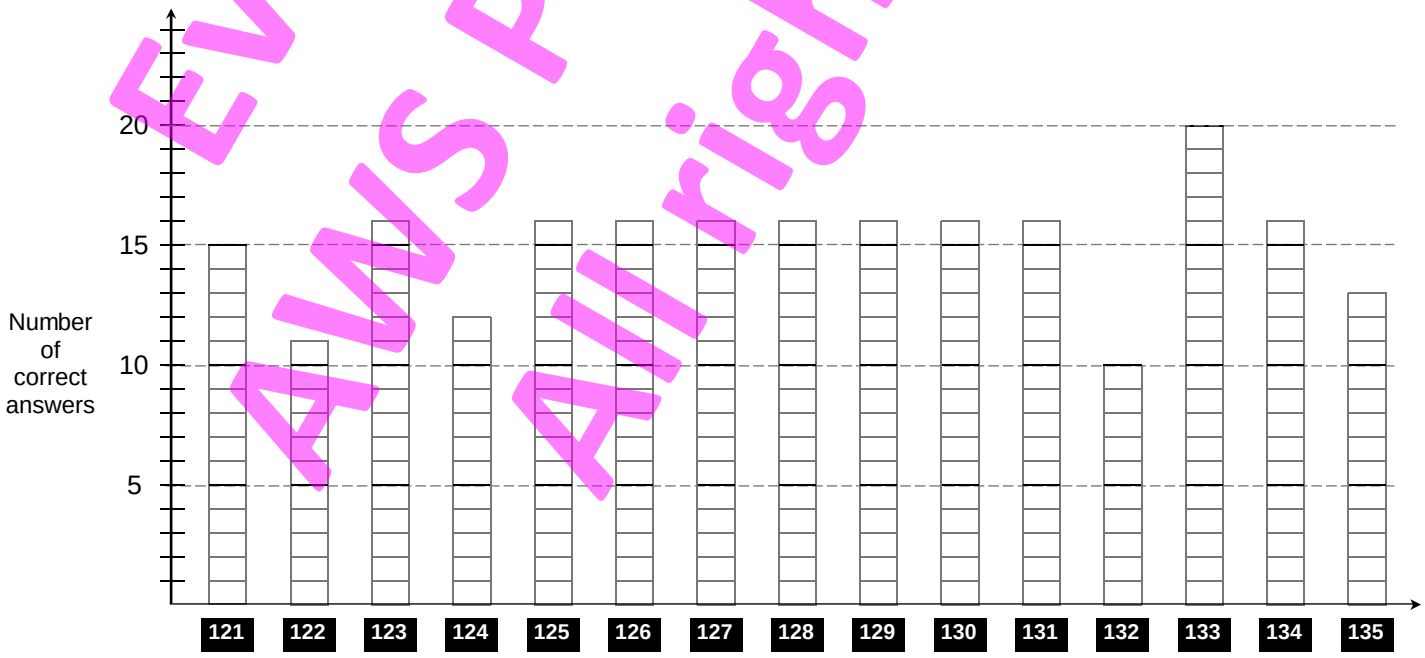
Daily Number Results



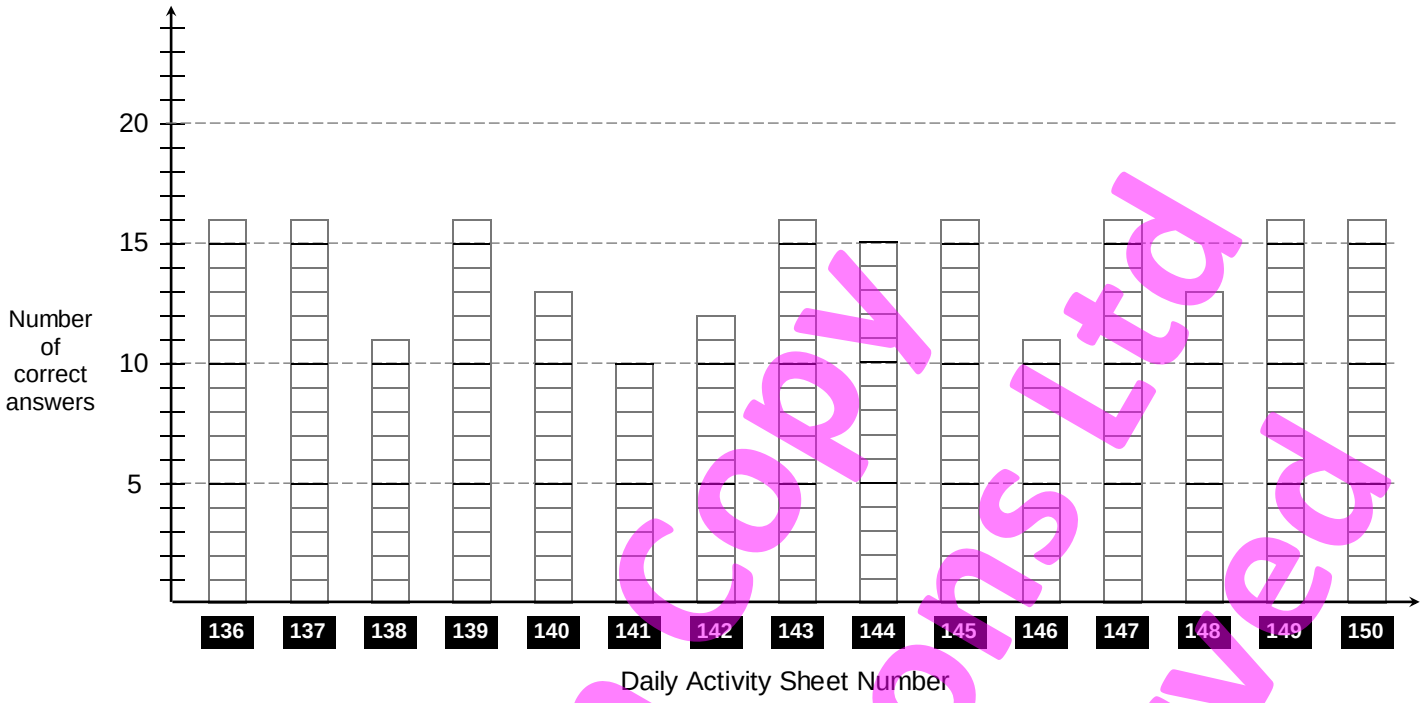








Daily Activity Sheet Number



1

Date: Time taken: Score:

(1) 761 + 229 =

(2) 393 + 486 =

(3) 784 - 480 =

(4) 670 - 249 =

(5) 2470 × 28

(6) 5093 × 75

(7) $2\overline{)1236}$

(8) $5\overline{)2930}$

List these decimals in **order** of **smallest** to **largest**.

5.4, 3.8, 1.3, 9.7, 2.9, 4.6, 2.2, 1.9, 7.8

(9)

6.5, 4.1, 9.6, 4.7, 7.4, 1.2, 8.5, 8.7, 6.2

(10)

8.3, 3.7, 6.3, 7.4, 5.6, 3.5, 7.2, 1.6, 7.9

(11)

2

Date: Time taken: Score:

(1) 361 + 597 =

(2) 584 + 108 =

(3) 687 - 241 =

(4) 706 - 492 =

(5) 5936 × 82

(6) 6127 × 57

(7) $2\overline{)1480}$

(8) $5\overline{)2695}$

Write these number words as **3-digit numbers**.

(9) three hundred and twenty-nine

(10) five hundred and seven

Write these 3-digit numbers as **number words**.

(11) 624

(12) 419

(13) 594

3

Date: Time taken: Score:

(1) 657 + 234 =

(2) 395 + 494 =

(3) 696 - 436 =

(4) 785 - 188 =

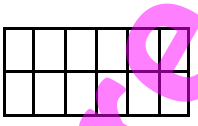
(5) 1824 × 28

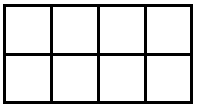
(6) 4850 × 75

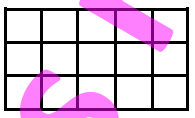
(7) $2\overline{)1854}$

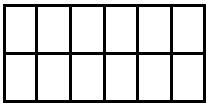
(8) $5\overline{)3090}$

Shade in part of each diagram to show you understand these fractions.

(9) $\frac{1}{2}$ 

(10) $\frac{1}{4}$ 

(11) $\frac{1}{5}$ 

(12) $\frac{1}{3}$ 

4

Date: Time taken: Score:

(1) 256 + 518 =

(2) 481 + 334 =

(3) 478 - 255 =

(4) 758 - 188 =

(5) 7059 × 82

(6) 9361 × 57

(7) $2\overline{)1712}$

(8) $5\overline{)2350}$

(9) How much would 4 C.D.'s at $29.95 each cost? 

(10) How much would 2 kilograms of meat at $11.75 per kilogram cost?

(11) If 9 exercise books cost $5.85, what is the cost of one exercise book? 

5

Date: Time taken: Score:

(1) 142 + 639 =

(2) 458 + 571 =

(3) 697 - 426 =

(4) 841 - 409 =

(5) 3618 × 28

(6) 2748 × 75

(7) $2\overline{)1870}$

(8) $5\overline{)1395}$

Multiplying and **dividing decimals**.

(9) 349.2 × 4.7

(10) 5.768 × 0.29

(11) $0.4\overline{)118.8}$

(12) $0.09\overline{)4.185}$

6

Date: Time taken: Score:

(1) 182 + 486 =

(2) 306 + 527 =

(3) 679 - 139 =

(4) 814 - 490 =

(5) 6127 × 46

(6) 5963 × 39

(7) $3\overline{)2112}$

(8) $4\overline{)1580}$

Calculate the change in temperatures.

(9) Starting temperature 9°C, **drops** 8°C.

(10) Starting temperature 2°C, **rises** 9°C.

(11) Starting temperature 3°C, **drops** 5°C.

(12) Starting temperature $^{-}$7°C, **rises** 5°C.

(13) Starting temperature $^{-}$2°C, **drops** 4°C.

7

Date: Time taken: Score:

(1) 145 + 259 =

(2) 492 + 282 =

(3) 589 - 204 =

(4) 766 - 439 =

(5) 5408 × 64

(6) 2841 × 93

(7) $3\overline{)2187}$

(8) $4\overline{)2724}$

Round these numbers to the nearest **10**.

(9) 149 (10) 312 (11) 853

(12) 975 (13) 443 (14) 264

Round these numbers to the nearest **100**.

(15) 1416 (16) 2551 (17) 6117

(18) 3289 (19) 7276 (20) 4910

8

Date: Time taken: Score:

(1) 558 + 261 =

(2) 837 + 127 =

(3) 586 - 475 =

(4) 766 - 493 =

(5) 4027 × 64

(6) 1693 × 39

(7) $3\overline{)1704}$

8() $4\overline{)1880}$

Finding a fraction of a quantity.

(9) $^1/_2$ of 48 =

(10) $^1/_3$ of 60 =

(11) $^1/_4$ of 24 =

(12) $^1/_5$ of 75 =

(13) $^1/_3$ of 120 =

(14) $^1/_4$ of 160 =

(15) $^1/_5$ of 150 =

(16) $^1/_2$ of 320 =

9

Date: Time taken: Score:

(1) 614 + 119 =

(2) 591 + 196 =

(3) 986 - 716 =

(4) 982 - 689 =

(5) 3095 × 46

(6) 5790 × 93

(7) $3\overline{)1077}$

(8) $4\overline{)1188}$

What is the **place value** of the **BOLD** digit in each number and what does it mean?

Example: In 4.**2**5 the place value is $\frac{1}{10}$'s and it means $^2/_{10}$.

(9) 2.**5**

(10) 51.0**9**2

(11) 3.**7**8

(12) 7**4**2.7

(13) 8.0**3**

(14) 3.14**8**

(15) 3.**8**7

(16) **6**42.04

10

Date: Time taken: Score:

(1) 275 + 493 =

(2) 547 + 249 =

(3) 459 - 115 =

(4) 928 - 698 =

(5) 4278 × 64

(6) 1836 × 39

(7) $3\overline{)2043}$

(8) $4\overline{)2344}$

Write these number words as **3-digit numbers**.

(9) six hundred and forty-eight

(10) seven hundred and thirteen

Write these 3-digit numbers as **number words**.

(11) 539

(12) 806

(13) 173

11

Date: Time taken: Score:

(1) 143 + 728 =

(2) 180 + 345 =

(3) 397 - 232 =

(4) 941 - 832 =

(5) 2470 × 65

(6) 5093 × 78

(7) $6\overline{)1674}$

(8) $7\overline{)1302}$

Calculate the change in temperatures.

(9) Starting temperature 2°C, **rises** 7°C.

(10) Starting temperature 6°C, **drops** 9°C.

(11) Starting temperature 0°C, **rises** 6°C.

(12) Starting temperature $^{-}$3°C, **rises** 8°C.

(13) Starting temperature $^{-}$1°C, **drops** 7°C.

12

Date: Time taken: Score:

(1) 270 + 586 =

(2) 436 + 246 =

(3) 598 - 303 =

(4) 419 - 328 =

(5) 5936 × 56

(6) 6127 × 87

(7) $6\overline{)3408}$

(8) $7\overline{)3290}$

List these decimals in **order** of **largest** to **smallest**.

5.3, 9.6, 4.7, 5.4, 3.8, 1.3, 9.7, 2.9, 6.5, 4.1

9. _____

7.5, 3.6, 5.2, 9.1, 2.7, 6.4, 4.4, 1.1, 9.8, 6.4

10. _____

6.1, 3.7, 8.5, 6.4, 1.8, 4.7, 6.2, 9.4, 7.4, 8.2

11. _____

13

Date: Time taken: Score:

(1) 372 + 308 =

(2) 193 + 873 =

(3) 985 - 825 =

(4) 842 - 624 =

(5) 1824 × 65

(6) 4850 × 78

(7) $6\overline{)2154}$

(8) $7\overline{)1953}$

9. How much would 5 C.D.'s at $24.95 each cost? _____

10. How much would 4 kilograms of meat at $10.60 per kilogram cost? _____

11. If 7 exercise books cost $8.75, what is the cost of one exercise book? _____

14

Date: Time taken: Score:

(1) 340 + 167 =

(2) 759 + 124 =

(3) 384 - 164 =

(4) 824 - 642 =

(6) 7059 × 56

(6) 9361 × 87

(7) $6\overline{)1116}$

(8) $7\overline{)3976}$

Calculate the **squares** of these numbers.

(9) 2^2 _____ (10) 9^2 _____ (11) 4^2 _____

(12) 7^2 _____ (13) 3^2 _____ (14) 6^2 _____

Calculate the **square roots** of these numbers.

(15) $\sqrt{25}$ _____ (16) $\sqrt{64}$ _____ (17) $\sqrt{49}$ _____

(18) $\sqrt{81}$ _____ (19) $\sqrt{16}$ _____ (20) $\sqrt{36}$ _____

15

Date: Time taken: Score:

(1) 263 + 109 =

(2) 184 + 551 =

(3) 975 - 170 =

(4) 873 - 158 =

(5) 3618 × 65

(6) 2748 × 78

(7) $6\overline{)2442}$

(8) $7\overline{)2765}$

Prime numbers, multiples & factors

(9) **List** the **prime numbers** between **10** and **20**.

(10) **List** the first 5 **multiples** of **5**.

(11) **List** the first 5 **multiples** of **6**.

(12) **List** the **factors** of **12**.

(13) **List** the **factors** of **15**.

16

Date: Time taken: Score:

(1) 352 + 356 = _____

(2) 628 + 337 = _____

(3) 837 - 185 = _____

(4) 380 - 154 = _____

(5) 8124 × 29 = _____

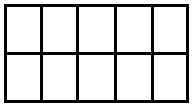
(6) 8450 × 36 = _____

(7) $8\overline{)4544}$

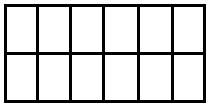
(8) $9\overline{)3663}$

Shade in part of each diagram to show you understand these fractions.

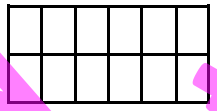
(9) $\frac{2}{5}$



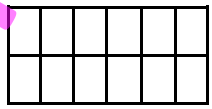
(10) $\frac{2}{3}$



(11) $\frac{3}{4}$



(12) $\frac{5}{6}$



17

Date: Time taken: Score:

(1) 207 + 696 = _____

(2) 282 + 367 = _____

(3) 964 - 749 = _____

(4) 308 - 145 = _____

(5) 5079 × 92 = _____

(6) 1693 × 63 = _____

(7) $8\overline{)2872}$

(8) $9\overline{)2673}$

Multiplying and **dividing decimals**.

(9) 39.57 × 5.6 = _____

(10) 4.628 × 0.38 = _____

(11) $0.5\overline{)1.845}$

(12) $0.07\overline{)64.89}$

18

Date: Time taken: Score:

(1) 267 + 251 = _____

(2) 469 + 317 = _____

(3) 946 - 794 = _____

(4) 590 - 423 = _____

(5) 3618 × 29 = _____

(6) 4728 × 36 = _____

(7) $8\overline{)1344}$

(8) $9\overline{)5274}$

Round these numbers to the nearest **10**.

(9) 187 _____ (10) 245 _____ (11) 386 _____

(12) 931 _____ (13) 623 _____ (14) 762 _____

Round these numbers to the nearest **100**.

(15) 1812 _____ (16) 2436 _____ (17) 3837 _____

(18) 4389 _____ (19) 9275 _____ (20) 5497 _____

19

Date: Time taken: Score:

(1) 295 + 760 = _____

(2) 564 + 437 = _____

(3) 744 - 648 = _____

(4) 905 - 234 = _____

(5) 3659 × 92 = _____

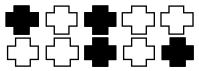
(6) 1276 × 60 = _____

(7) $8\overline{)3760}$

(8) $9\overline{)3231}$

What **fraction** of each group of shapes is shaded?

(9)  _____

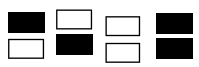
(10)  _____

(11)  _____

(12)  _____

(13)  _____

(14)  _____

(15)  _____

(16)  _____

20

Date: Time taken: Score:

(1) 251 + 485 = _____

(2) 527 + 303 = _____

(3) 644 - 384 = _____

(4) 645 - 107 = _____

(5) 4720 × 90 = _____

(6) 9053 × 36 = _____

(7) $8\overline{)2232}$

(8) $9\overline{)1512}$

(9) How much would 3 C.D.'s at $32.95 each cost? _____

(10) How much would 6 kilograms of meat at $4.65 per kilogram cost? _____

(11) If 8 exercise books cost $6.80, what is the cost of one exercise book? _____

21

Date: Time taken: Score:

(1) 209 + 632 =

(2) 383 + 251 =

(3) 761 - 636 =

(4) 654 - 170 =

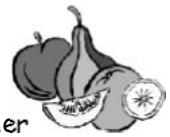
(5) 4281 × 89

(6) 8472 × 47

(7) $2\overline{)1870}$

(8) $4\overline{)1116}$

(9) **Add** up Karen's shopping list.



$12.45
$15.40
$26.15
$12.64
+ $9.85

(10) If Karen paid for her groceries with four $20.00 notes, how much change would she get back?

22

Date: Time taken: Score:

(1) 164 + 640 =

(2) 413 + 437 =

(3) 717 - 666 =

(4) 795 - 299 =

(5) 1836 × 98

(6) 5048 × 74

(7) $2\overline{)1316}$

(8) $4\overline{)1880}$

What is the **place value** of the **BOLD** digit in each number and what does it mean?

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

(9) 3.**7**

(10) 12.3**8**3

(11) **7**.25

(12) **9**42.6

(13) 9.0**5**

(14) 9.04**5**

(15) 3.**9**3

(16) **5**24.19

23

Date: Time taken: Score:

(1) 209 + 683 =

(2) 473 + 155 =

(3) 453 - 127 =

(4) 759 - 299 =

(5) 5970 × 89

(6) 3619 × 47

(7) $2\overline{)1458}$

(8) $4\overline{)2476}$

Write these number words as **3-digit numbers.**

(9) nine hundred and sixty-five

(10) three hundred and seventy-two

Write these 3-digit numbers as **number words.**

(11) 396

(12) 437

(13) 849

24

Date: Time taken: Score:

(1) 382 + 694 =

(2) 678 + 128 =

(3) 453 - 127 =

(4) 680 - 308 =

(5) 3659 × 98

(6) 2761 × 74

(7) $2\overline{)1480}$

(8) $4\overline{)1436}$

Multiplying and **dividing** by **10**, **100** or **1000**.

(9) 5.37 × 100 =

(10) 3.7 × 1000 =

(11) 7.4 × 10 =

(12) 2.1 × 100 =

(13) 0.06 × 1000 =

(14) 49.3 ÷ 10 =

(15) 53.6 ÷ 100 =

(16) 625 ÷ 1000 =

(17) 89.7 ÷ 10 =

(18) 579 ÷ 100 =

25

Date: Time taken: Score:

(1) 198 + 109 =

(2) 191 + 518 =

(3) 992 - 345 =

(4) 680 - 308 =

(5) 2470 × 89

(6) 5930 × 47

(7) $2\overline{)1236}$

(8) $4\overline{)2344}$

Calculate the change in temperatures.

(9) Starting temperature 4°C, **rises** 6°C.

(10) Starting temperature 4°C, **drops** 7°C.

(11) Starting temperature 6°C, **rises** 9°C.

(12) Starting temperature $^{-}$5°C, **rises** 6°C.

(13) Starting temperature $^{-}$3°C, **drops** 5°C.

26

Date: Time taken: Score:

(1) 478 + 197 =

(2) 761 + 229 =

(3) 992 - 345 =

(4) 952 - 648 =

(5) 5093 × 25

(6) 2470 × 78

(7) $3\overline{)2043}$

(8) $7\overline{)3976}$

Round these numbers to the nearest 10, 100 or 1000, before working out an **estimated answer**.

(9) 580 + 325 ____ + ____ = ____

(10) 2178 - 595 ____ - ____ = ____

(11) 4867 × 18 ____ × ____ = ____

(12) 7496 ÷ 5 ____ ÷ ____ = ____

27

Date: Time taken: Score:

(1) 393 + 486 =

(2) 141 + 971 =

(3) 480 - 376 =

(4) 952 - 648 =

(5) 6127 × 52

(6) 5936 × 87

(7) $3\overline{)1410}$

(8) $7\overline{)2765}$

Calculate the **squares** of these numbers.

(9) 5^2 (10) 8^2 (11) 9^2

(12) 10^2 (13) 12^2 (14) 6^2

Calculate the **square roots** of these numbers.

(15) $\sqrt{9}$ (16) $\sqrt{81}$ (17) $\sqrt{36}$

(18) $\sqrt{25}$ (19) $\sqrt{49}$ (20) $\sqrt{144}$

28

Date: Time taken: Score:

(1) 833 + 259 =

(2) 306 + 527 =

(3) 408 - 367 =

(4) 691 - 508 =

(5) 4850 × 25

(6) 1824 × 78

(7) $3\overline{)2187}$

(8) $7\overline{)1309}$

Multiplying and **dividing decimals**.

(9) 426.8 × 6.9

(10) 5.786 × 0.38

(11) $0.6\overline{)289.8}$

(12) $0.08\overline{)2.360}$

29

Date: Time taken: Score:

(1) 182 + 425 =

(2) 376 + 469 =

(3) 893 - 374 =

(4) 919 - 780 =

(5) 9361 × 52

(6) 7059 × 87

(7) $3\overline{)1704}$

(8) $7\overline{)3290}$

Prime numbers, multiples & factors

(9) **List** the **prime numbers** between **20** and **30**. ____

(10) **List** the first 5 **multiples** of **3**. ____

(11) **List** the first 5 **multiples** of **7**. ____

(12) **List** the **factors** of **18**. ____

(13) **List** the **factors** of **21**. ____

30

Date: Time taken: Score:

(1) 143 + 728 =

(2) 471 + 878 =

(3) 836 - 345 =

(4) 872 - 173 =

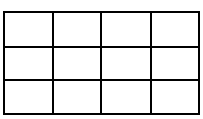
(5) 2748 × 25

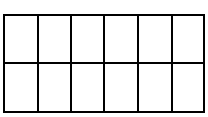
(6) 3618 × 78

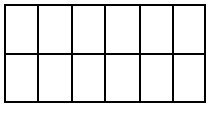
(7) $3\overline{)1077}$

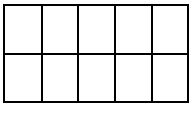
(8) $7\overline{)1953}$

Shade in part of each diagram to show you understand these fractions.

(9) $\frac{1}{2}$ 

(10) $\frac{3}{4}$ 

(11) $\frac{2}{3}$ 

(12) $\frac{4}{5}$ 

31

Date: Time taken: Score:

(1) 180 + 425 =

(2) 904 + 836 =

(3) 363 - 269 =

(4) 827 - 137 =

(5) 6127 × 43

(6) 5936 × 69

(7) $6\overline{)1674}$

(8) $9\overline{)1512}$

What **fraction** of each group of shapes is shaded?

(9) (10) (11) (12) (13) (14) (15) (16)

32

Date: Time taken: Score:

(1) 628 + 337 =

(2) 689 + 167 =

(3) 636 - 296 =

(4) 491 - 196 =

(5) 5093 × 34

(6) 2470 × 96

(7) $6\overline{)5136}$

(8) $9\overline{)4230}$

(9) How much would 6 C.D.'s at $16.95 each cost?

(10) How much would 3 kilograms of meat at $14.35 per kilogram cost?

(11) If 9 exercise books cost $10.35, what is the cost of one exercise book?

33

Date: Time taken: Score:

(1) 352 + 356 =

(2) 762 + 486 =

(3) 652 - 417 =

(4) 419 - 169 =

(5) 9361 × 43

(6) 7059 × 96

(7) $6\overline{)2370}$

(8) $9\overline{)2511}$

What is the **place value** of the **BOLD** digit in each number and what does it mean?

Example: In 4.**2**5 the place value is $\frac{1}{10}$'s and it means $^{2}/_{10}$.

(9) 3.**1** (10) 23.9**4**2

(11) **9**.41 (12) 8**2**0.9

(13) 5.0**4** (14) 0.10**8**

(15) 8.**4**3 (16) **6**27.42

34

Date: Time taken: Score:

(1) 383 + 251 =

(2) 915 + 456 =

(3) 526 - 174 =

(4) 894 - 755 =

(5) 2748 × 34

(6) 3618 × 69

(7) $6\overline{)3708}$

(8) $9\overline{)5274}$

List these decimals in **order** of **largest** to **smallest**.

3.4, 9.0, 5.6, 2.4, 5.1, 7.6, 8.2, 9.2, 5.7, 4.5

(9)

5.0, 6.3, 9.6, 4.2, 3.2, 6.1, 4.8, 5.9, 6.6, 7.4

(10)

7.5, 3.6, 5.2, 2.7, 6.4, 4.4, 1.1, 9.8, 6.4, 3.1

(11)

35

Date: Time taken: Score:

(1) 584 + 108 =

(2) 283 + 388 =

(3) 930 - 227 =

(4) 948 - 557 =

(5) 4850 × 43

(6) 1824 × 96

(7) $6\overline{)4224}$

(8) $9\overline{)3555}$

Round these numbers to the nearest **10**.

(9) 546 (10) 161 (11) 989

(12) 412 (13) 744 (14) 605

Round these numbers to the nearest **100**.

(15) 1423 (16) 4363 (17) 5947

(18) 3590 (19) 2622 (20) 7850

36

Date: Time taken: Score:

(1) 361 + 597 =

(2) 662 + 866 =

(3) 903 - 272 =

(4) 951 - 305 =

(5) 1842 × 49

(6) 4805 × 87

(7) $8\overline{)6848}$

(8) $5\overline{)3700}$

Finding a **fraction** of a **quantity**.

(9) $^1/_3$ of 39 =

(10) $^1/_5$ of 60 =

(11) $^1/_6$ of 42 =

(12) $^1/_{10}$ of 70 =

(13) $^1/_5$ of 125 =

(14) $^1/_6$ of 240 =

(15) $^1/_{10}$ of 270 =

(16) $^1/_3$ of 180 =

37

Date: Time taken: Score:

(1) 145 + 259 =

(2) 918 + 927 =

(3) 975 - 126 =

(4) 915 - 350 =

(5) 5970 × 94

(6) 6193 × 78

(7) $8\overline{)6888}$

(8) $5\overline{)3425}$

Calculate the change in temperatures.

(9) Starting temperature 5°C, **drops** 9°C.

(10) Starting temperature 7°C, **rises** 8°C.

(11) Starting temperature 6°C, **drops** 8°C.

(12) Starting temperature $^-$3°C, **rises** 7°C.

(13) Starting temperature $^-$1°C, **drops** 6°C.

38

Date: Time taken: Score:

(1) 492 + 282 =

(2) 548 + 272 =

(3) 759 - 261 =

(4) 584 - 307 =

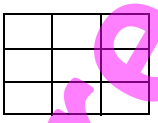
(5) 1836 × 49

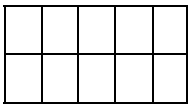
(6) 4827 × 87

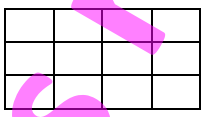
(7) $8\overline{)3760}$

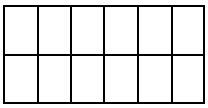
(8) $5\overline{)2695}$

Shade in part of each diagram to show you understand these fractions.

(9) $\frac{1}{3}$ 

(10) $\frac{3}{5}$ 

(11) $\frac{2}{3}$ 

(12) $\frac{5}{6}$ 

39

Date: Time taken: Score:

(1) 436 + 246 =

(2) 290 + 956 =

(3) 491 - 207 =

(4) 548 - 370 =

(5) 7024 × 94

(6) 9350 × 78

(7) $8\overline{)4744}$

(8) $5\overline{)3960}$

Complete each calculation to create **equivalent fractions**. *Example:* $^1/_2 \times {}^8/_8 = {}^8/_{16}$

(9) $^1/_2 \times {}^4/_4 =$

(10) $^1/_3 \times {}^5/_5 =$

(11) $^1/_4 \times {}^6/_6 =$

(12) $^1/_3 \times {}^3/_3 =$

(13) $^2/_3 \times {}^2/_2 =$

(14) $^3/_4 \times {}^7/_7 =$

(15) $^3/_5 \times {}^8/_8 =$

(16) $^7/_{10} \times {}^{10}/_{10} =$

40

Date: Time taken: Score:

(1) 270 + 586 =

(2) 788 + 903 =

(3) 419 - 270 =

(4) 783 - 536 =

(5) 3659 × 49

(6) 2761 × 87

(7) $8\overline{)7416}$

(8) $5\overline{)3090}$

What is the **place value** of the **BOLD** digit in each number and what does it mean?

Example: In 4.**2**5 the place value is $\frac{1}{10}$'s and it means $^2/_{10}$.

(9) 2.**5**

(10) 12.8**0**6

(11) **6**.78

(12) 3**7**9.4

(13) 4.0**5**

(14) 7.63**5**

(15) 9.**1**4

(16) **9**42.36

41

Date: Time taken: Score:

(1) 207 + 696 =

(2) 387 + 653 =

(3) 594 - 186 =

(4) 737 - 565 =

(5) 9507 × 26

(6) 1639 × 93

(7) $2\overline{)1316}$

(8) $7\overline{)3612}$

Multiplying and **dividing** by **10**, **100** or **1000**.

(9) 5.82 × 100 =

(10) 419 × 1000 =

(11) 7.3 × 10 =

(12) 68.2 × 100 =

(13) 1.27 × 1000 =

(14) 96.4 ÷ 10 =

(15) 862 ÷ 100 =

(16) 743 ÷ 1000 =

(17) 491 ÷ 10 =

(18) 64.3 ÷ 100 =

42

Date: Time taken: Score:

(1) 282 + 367 =

(2) 562 + 975 =

(3) 945 - 861 =

(4) 780 - 622 =

(5) 8163 × 60

(6) 8472 × 39

(7) $2\overline{)1588}$

(8) $7\overline{)3521}$

(9) **Add** up Rangi's shopping list.

$17.45
$15.83
$16.15
$12.62
+ $9.85

(10) If Rangi paid for his groceries with four $20.00 notes, how much change would he get back?

43

Date: Time taken: Score:

(1) 413 + 437 =

(2) 815 + 448 =

(3) 950 - 555 =

(4) 807 - 226 =

(5) 4281 × 26

(6) 8054 × 93

(7) $2\overline{)1832}$

(8) $7\overline{)5096}$

Prime numbers, multiples & factors

(9) **List** the **prime numbers** between **25** and **35**.

(10) **List** the first 5 **multiples** of **2**.

(11) **List** the first 5 **multiples** of **8**.

(12) **List** the **factors** of **20**.

(13) **List** the **factors** of **24**.

44

Date: Time taken: Score:

(1) 164 + 640 =

(2) 149 + 682 =

(3) 905 - 555 =

(4) 833 - 515 =

(5) 6395 × 62

(6) 7216 × 90

(7) $2\overline{)1094}$

(8) $7\overline{)6020}$

Calculate the **squares** of these numbers.

(9) 3^2

(10) 8^2

(11) 10^2

(12) 7^2

(13) 11^2

(14) 9^2

Calculate the **square roots** of these numbers.

(15) $\sqrt{16}$

(16) $\sqrt{64}$

(17) $\sqrt{36}$

(18) $\sqrt{49}$

(19) $\sqrt{100}$

(20) $\sqrt{25}$

45

Date: Time taken: Score:

(1) 657 + 234 =

(2) 580 + 984 =

(3) 680 - 161 =

(4) 638 - 155 =

(5) 7024 × 26

(6) 9350 × 39

(7) $2\overline{)1864}$

(8) $7\overline{)4053}$

List these decimals in **order** of **smallest** to **largest**.

5.8, 1.0, 4.2, 7.9, 3.1, 6.7, 3.5, 6.0, 2.1, 4.8

(9)

3.8, 4.7, 8.0, 2.9, 3.4, 4.1, 3.3, 6.9, 1.3, 2.4

(10)

4.7, 3.8, 6.3, 2.6, 5.2, 1.9, 5.5, 9.9, 8.4, 6.3

(11)

46

Date: Time taken: Score:

(1) 395 + 494 =

(2) 547 + 548 =

(3) 806 - 511 =

(4) 642 - 546 =

(5) 8241 × 75

(6) 1276 × 68

(7) $3\overline{)1758}$

(8) $9\overline{)1485}$

(9) How much would 5 C.D.'s at $24.95 each cost?

(10) How much would 2 kilograms of meat at $12.75 per kilogram cost?

(11) If 6 exercise books cost $5.70, what is the cost of one exercise book?

47

Date: Time taken: Score:

(1) 837 + 127 =

(2) 463 + 287 =

(3) 791 - 314 =

(4) 724 - 364 =

(5) 4702 × 57

(6) 3619 × 86

(7) $3\overline{)1491}$

(8) $9\overline{)2745}$

Round these numbers to the nearest 10, 100 or 1000, before working out an **estimated answer**.

(9) 921 + 689 ____ + ____ = ____

(10) 6268 - 715 ____ - ____ = ____

(11) 3785 × 32 ____ × ____ = ____

(12) 5894 ÷ 6 ____ ÷ ____ = ____

48

Date: Time taken: Score:

(1) 558 + 261 =

(2) 782 + 767 =

(3) 916 - 145 =

(4) 976 - 477 =

(5) 3956 × 75

(6) 2478 × 68

(7) $3\overline{)1857}$

(8) $9\overline{)2502}$

Multiplying and **dividing decimals**.

(9) 19.34 × 7.9

(10) 3.094 × 0.65

(11) $0.4\overline{)15.44}$

(12) $0.07\overline{)3.395}$

49

Date: Time taken: Score:

(1) 372 + 308 =

(2) 952 + 719 =

(3) 967 - 828 =

(4) 967 - 477 =

(5) 5097 × 57

(6) 8540 × 86

(7) $3\overline{)1425}$

(8) $9\overline{)5472}$

Calculate the change in temperatures.

(9) Starting temperature 3°C, **rises** 9°C.

(10) Starting temperature 5°C, **drops** 8°C.

(11) Starting temperature 0°C, **rises** 7°C.

(12) Starting temperature $^{-}$4°C, **rises** 8°C.

(13) Starting temperature $^{-}$3°C, **drops** 6°C.

50

Date: Time taken: Score:

(1) 193 + 873 =

(2) 697 + 136 =

(3) 679 - 288 =

(4) 856 - 268 =

(5) 6183 × 75

(6) 2761 × 68

(7) $3\overline{)2796}$

(8) $9\overline{)6831}$

Write these number words as **3-digit numbers**.

(9) one hundred and fifty-four

(10) four hundred and thirty-six

Write these 3-digit numbers as **number words**.

(11) 963

(12) 284

(13) 175

51

Date: Time taken: Score:

(1) 469 + 317 =

(2) 427 + 986 =

(3) 758 - 159 =

(4) 865 - 286 =

(5) 5041 × 28

(6) 7269 × 75

(7) $6\overline{)5136}$

(8) $5\overline{)3075}$

Read each statement and **write** the information as a **fraction**. *Example:* 3 out of 4 is written as $^3/_4$

(9) Abbey scored 13 out of 20 in a test.

(10) It rained 27 days out of 50 days.

(11) It was sunny 5 days last week.

(12) What fraction of your class are girls?

52

Date: Time taken: Score:

(1) 267 + 251 =

(2) 914 + 246 =

(3) 785 - 195 =

(4) 587 - 249 =

(5) 3850 × 57

(6) 4172 × 82

(7) $6\overline{)2982}$

(8) $5\overline{)1525}$

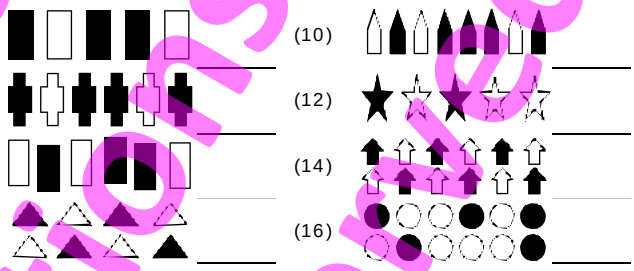
What **fraction** of each group of shapes is shaded?

(9) (10)

(11) (12)

(13) (14)

(15) (16)



53

Date: Time taken: Score:

(1) 209 + 683 =

(2) 278 + 349 =

(3) 670 - 249 =

(4) 578 - 294 =

(5) 6938 × 75

(6) 5041 × 28

(7) $6\overline{)3714}$

(8) $5\overline{)4135}$

Write these number words as **decimal numbers**.

(9) thirty-four point five

(10) nine point zero one seven

Write these decimal numbers as **number words**.

(11) 9.68

(12) 15.02

(13) 347.5

54

Date: Time taken: Score:

(1) 473 + 694 =

(2) 753 + 962 =

(3) 941 - 832 =

(4) 706 - 492 =

(5) 7269 × 57

(6) 3850 × 82

(7) $6\overline{)4470}$

(8) $5\overline{)3040}$

Complete each calculation to create **equivalent fractions**. *Example:* $^1/_2 \times {}^8/_8 = {}^8/_{16}$

(9) $^2/_3 \times {}^4/_4 =$ (10) $^3/_4 \times {}^5/_5 =$

(11) $^1/_3 \times {}^6/_6 =$ (12) $^5/_6 \times {}^3/_3 =$

(13) $^3/_7 \times {}^2/_2 =$ (14) $^7/_9 \times {}^7/_7 =$

(15) $^3/_{10} \times {}^8/_8 =$ (16) $^1/_{15} \times {}^{10}/_{10} =$

55

Date: Time taken: Score:

(1) 256 + 518 =

(2) 659 + 405 =

(3) 590 - 423 =

(4) 419 - 328 =

(5) 4172 × 75

(6) 6938 × 28

(7) $6\overline{)5538}$

(8) $5\overline{)4875}$

What is the **place value** of the **BOLD** digit in each number and what does it mean?

Example: In 4.**2**5 the place value is $\frac{1}{10}$'s and it means $^2/_{10}$.

(9) 7.**3** (10) 96.3**8**2

(11) **6**.65 (12) **7**62.9

(13) 3.8**3** (14) 3.86**3**

(15) 4.**7**5 (16) **9**45.17

56

Date: Time taken: Score:

(1) 481 + 334 =

(2) 369 + 378 =

(3) 905 - 234 =

(4) 453 - 127 =

(5) 1405 × 46

(6) 9627 × 39

(7) $8\overline{)4544}$

(8) $4\overline{)2604}$

(9) **Add** up Miri's shopping list.

$22.45
$16.87
$9.15
$32.62
+ $9.84

(10) If Miri paid for her groceries with five $20.00 notes, how much change would she get back?

57

Date: Time taken: Score:

(1) 614 + 119 =

(2) 311 + 893 =

(3) 691 - 508 =

(4) 453 - 127 =

(5) 5083 × 64

(6) 2714 × 93

(7) $8\overline{)3832}$

(8) $4\overline{)2120}$

Multiplying and **dividing** by **10**, **100** or **1000**.

(9) 5.23 × 100 =

(10) 8.61 × 1000 =

(11) 8.47 × 10 =

(12) 67.9 × 100 =

(13) 0.172 × 1000 =

(14) 45.3 ÷ 10 =

(15) 986 ÷ 100 =

(16) 8610 ÷ 1000 =

(17) 43.7 ÷ 10 =

(18) 1291 ÷ 100 =

58

Date: Time taken: Score:

(1) 591 + 196 =

(2) 529 + 573 =

(3) 919 - 780 =

(4) 652 - 417 =

(5) 8396 × 46

(6) 1405 × 39

(7) $8\overline{)5528}$

(8) $4\overline{)3128}$

Match these **equivalent fractions**.

Example: $^1/_2 = {}^8/_{16}$

(9) $^1/_2$ =

(10) $^3/_9$ =

(11) $^3/_{12}$ =

(12) $^1/_5$ =

(13) $^2/_3$ =

(14) $^9/_{12}$ =

(15) $^4/_{10}$ =

(16) $^5/_6$ =

Answers:
$^3/_4$ $^1/_4$
$^4/_{20}$ $^3/_6$
$^1/_3$ $^2/_5$
$^8/_{12}$ $^{15}/_{18}$

59

Date: Time taken: Score:

(1) 759 + 124 =

(2) 767 + 297 =

(3) 584 - 307 =

(4) 526 - 174 =

(5) 9627 × 64

(6) 5083 × 93

(7) $8\overline{)6032}$

(8) $4\overline{)3224}$

Prime numbers, multiples & factors

(9) **List** the **prime numbers** between **30** and **40**.

(10) **List** the first 5 **multiples** of **4**.

(11) **List** the first 5 **multiples** of **9**.

(12) **List** the **factors** of **25**.

(13) **List** the **factors** of **30**.

60

Date: Time taken: Score:

(1) 340 + 167 =

(2) 650 + 672 =

(3) 548 - 370 =

(4) 950 - 555 =

(5) 2714 × 46

(6) 8396 × 39

(7) $8\overline{)7456}$

(8) $4\overline{)3900}$

List these decimals in **order** of **smallest** to **largest**.

2.4, 2.9, 2.7, 2.6, 2.1, 2.5, 2.3, 2.0, 2.8, 2.2

(9)

1.2, 1.6, 1.7, 1.8, 1.7, 1.3, 1.4, 1.0, 1.5, 1.1

(10)

0.15, 0.13, 0.19, 0.10, 0.16, 0.17, 0.12, 0.14

(11)

61

Date: Time taken: Score:

(1) 564 + 437 =

(2) 978 + 216 =

(3) 976 - 477 =

(4) 905 - 555 =

(5) 2697 × 65

(6) 8503 × 78

(7) $2\overline{)1230}$

(8) $9\overline{)5112}$

(9) How much would 7 C.D.'s at $17.95 each cost?

(10) How much would 4 kilograms of meat at $8.95 per kilogram cost?

(11) If 8 exercise books cost $1.36, what is the cost of one exercise book?

62

Date: Time taken: Score:

(1) 295 + 760 =

(2) 393 + 297 =

(3) 967 - 477 =

(4) 785 - 188 =

(5) 1724 × 56

(6) 9386 × 87

(7) $2\overline{)1006}$

(8) $9\overline{)4311}$

Calculate the **squares** of these numbers.

(9) 4^2 (10) 7^2 (11) 12^2

(12) 9^2 (13) 11^2 (14) 8^2

Calculate the **square roots** of these numbers.

(15) $\sqrt{9}$ (16) $\sqrt{36}$ (17) $\sqrt{25}$

(18) $\sqrt{81}$ (19) $\sqrt{100}$ (20) $\sqrt{49}$

63

Date: Time taken: Score:

(1) 678 + 128 =

(2) 294 + 841 =

(3) 842 - 624 =

(4) 758 - 188 =

(5) 4105 × 65

(6) 2697 × 78

(7) $2\overline{)1654}$

(8) $9\overline{)1521}$

Write these number words as **3-digit numbers.**

(9) eight hundred and ninety-one

(10) five hundred and thirty-six

Write these 3-digit numbers as **number words.**

(11) 428

(12) 769

(13) 537

64

Date: Time taken: Score:

(1) 382 + 694 =

(2) 645 + 509 =

(3) 824 - 642 =

(4) 744 - 648 =

(5) 8503 × 56

(6) 1724 × 87

(7) $2\overline{)1360}$

(8) $9\overline{)4275}$

Calculate the change in temperatures.

(9) Starting temperature 2°C, **drops** 7°C.

(10) Starting temperature 3°C, **rises** 8°C.

(11) Starting temperature 4°C, **drops** 5°C.

(12) Starting temperature $^{-}$8°C, **rises** 5°C.

(13) Starting temperature $^{-}$2°C, **drops** 5°C.

65

Date: Time taken: Score:

(1) 142 + 639 =

(2) 278 + 483 =

(3) 680 - 308 =

(4) 644 - 384 =

(5) 3986 × 65

(6) 4015 × 78

(7) $2\overline{)1158}$

(8) $9\overline{)2637}$

Order of **operations.**

(9) 6 × 4 + 17 =

(10) 48 ÷ 4 - 9 =

(11) 40 ÷ 8 + 26 =

(12) 6 × 9 - 37 =

(13) 15 + 36 ÷ 9 =

(14) 24 + 10 × 3 =

(15) 70 - 7 × 7 =

(16) 74 - 56 ÷ 7 =

66

Date: | Time taken: | Score:

(1) 458 + 571 =

(2) 796 + 740 =

(3) 893 - 374 =

(4) 680 - 308 =

(5) 7241 × 29

(6) 3869 × 36

(7) $3\overline{)2883}$

(8) $5\overline{)4360}$

Round these numbers to the nearest **10**.

(9) 684 (10) 569 (11) 708

(12) 827 (13) 144 (14) 275

Round these numbers to the nearest **100**.

(15) 3903 (16) 7646 (17) 6380

(18) 4857 (19) 5275 (20) 1937

67

Date: | Time taken: | Score:

(1) 547 + 249 =

(2) 749 + 536 =

(3) 894 - 755 =

(4) 836 - 345 =

(5) 1540 × 90

(6) 6972 × 63

(7) $3\overline{)1425}$

(8) $5\overline{)4300}$

Multiplying and **dividing decimals**.

(9) 195.3 × 3.8

(10) 4.286 × 0.56

(11) $0.6\overline{)17.82}$

(12) $0.08\overline{)1.424}$

68

Date: | Time taken: | Score:

(1) 275 + 493 =

(2) 158 + 775 =

(3) 948 - 557 =

(4) 491 - 207 =

(5) 5038 × 29

(6) 7241 × 36

(7) $3\overline{)1176}$

(8) $5\overline{)3795}$

Complete each calculation to create **equivalent fractions**. *Example:* $^1/_2 \times {}^8/_8 = {}^8/_{16}$

(9) $^1/_5 \times {}^4/_4 =$ (10) $^1/_7 \times {}^5/_5 =$

(11) $^1/_9 \times {}^6/_6 =$ (12) $^1/_{10} \times {}^3/_3 =$

(13) $^3/_5 \times {}^2/_2 =$ (14) $^3/_4 \times {}^7/_7 =$

(15) $^2/_9 \times {}^8/_8 =$ (16) $^4/_5 \times {}^{10}/_{10} =$

69

Date: | Time taken: | Score:

(1) 263 + 109 =

(2) 630 + 598 =

(3) 833 - 515 =

(4) 419 - 270 =

(5) 3869 × 92

(6) 1405 × 60

(7) $3\overline{)1704}$

(8) $5\overline{)3075}$

List these decimals in **order** of **largest** to **smallest**.

4.6, 4.0, 4.1, 4.3, 4.8, 4.7, 4.2, 4.9, 4.5, 4.4

(9)

6.6, 6.4, 6.9, 6.1, 6.0, 6.8, 6.7, 6.2, 6.3, 6.5

(10)

3.16, 3.17, 3.10, 3.12, 3.19, 3.17, 3.11, 3.13

(11)

70

Date: | Time taken: | Score:

(1) 184 + 551 =

(2) 539 + 806 =

(3) 638 - 155 =

(4) 967 - 828 =

(5) 2697 × 29

(6) 5830 × 36

(7) $3\overline{)2922}$

(8) $5\overline{)2650}$

(9) **Add** up Katie's shopping list.

$9.75
$35.87
$7.25
$23.67
+ $9.85

(10) If Katie paid for her groceries with five $20.00 notes, how much change would she get back?

-

71

Date: Time taken: Score:

(1) 527 + 303 =

(2) 478 + 197 =

(3) 841 - 409 =

(4) 679 - 288 =

(5) 2697 × 89

(6) 3085 × 47

(7) $6\overline{)2982}$

(8) $4\overline{)1400}$

What is the **place value** of the **BOLD** digit in each number and what does it mean?

Example: In 4.**2**5 the place value is $\frac{1}{10}$'s and it means $^{2}/_{10}$.

(9) 8.**9**

(10) 47.5**2**9

(11) **8**.48

(12) 76**0**.7

(13) 5.0**3**

(14) 3.34**5**

(15) 3.**7**2

(16) **6**24.95

72

Date: Time taken: Score:

(1) 251 + 485 =

(2) 141 + 971 =

(3) 814 - 490 =

(4) 873 - 409 =

(5) 1742 × 98

(6) 3968 × 74

(7) $6\overline{)1014}$

(8) $4\overline{)2912}$

Prime numbers, multiples & factors

(9) **List** the **prime numbers** between **35** and **45**.

(10) **List** the first 5 **multiples** of **3**.

(11) **List** the first 5 **multiples** of **10**.

(12) **List** the **factors** of **28**.

(13) **List** the **factors** of **33**.

73

Date: Time taken: Score:

(1) 198 + 109 =

(2) 988 + 115 =

(3) 645 - 107 =

(4) 837 - 185 =

(5) 1054 × 89

(6) 2769 × 47

(7) $6\overline{)4524}$

(8) $4\overline{)3440}$

Match these **equivalent fractions**.

Example: $^{1}/_{2} = {}^{8}/_{16}$

(9) $^{1}/_{2}$ =

(10) $^{16}/_{24}$ =

(11) $^{5}/_{15}$ =

(12) $^{5}/_{6}$ =

(13) $^{3}/_{4}$ =

(14) $^{9}/_{15}$ =

(15) $^{6}/_{24}$ =

(16) $^{7}/_{10}$ =

Answers:

$^{1}/_{3}$ $^{12}/_{16}$

$^{3}/_{5}$ $^{7}/_{14}$

$^{21}/_{30}$ $^{1}/_{4}$

$^{10}/_{12}$ $^{2}/_{3}$

74

Date: Time taken: Score:

(1) 191 + 518 =

(2) 149 + 682 =

(3) 992 - 345 =

(4) 654 - 170 =

(5) 3580 × 98

(6) 2471 × 74

(7) $6\overline{)5538}$

(8) $4\overline{)2316}$

Multiplying and **dividing** by **10**, **100** or **1000**.

(9) 2.34 × 100 =

(10) 0.217 × 1000 =

(11) 1.74 × 10 =

(12) 3.64 × 100 =

(13) 1.581 × 1000 =

(14) 48.9 ÷ 10 =

(15) 97.3 ÷ 100 =

(16) 1120 ÷ 1000 =

(17) 483.1 ÷ 10 =

(18) 56.9 ÷ 100 =

75

Date: Time taken: Score:

(1) 761 + 229 =

(2) 624 + 419 =

(3) 872 - 173 =

(4) 992 - 345 =

(5) 3896 × 89

(6) 4510 × 47

(7) $6\overline{)3516}$

(8) $4\overline{)2064}$

Round these numbers to the nearest 10, 100 or 1000, before working out an **estimated answer**.

(9) 186 + 738 ____ + ____ = ____

(10) 4638 - 479 ____ - ____ = ____

(11) 9075 × 39 ____ × ____ = ____

(12) 3625 ÷ 6 ____ ÷ ____ = ____

76

Date: Time taken: Score:

(1) 393 + 486 =

(2) 562 + 975 =

(3) 827 - 137 =

(4) 930 - 227 =

(5) 6938 × 28

(6) 4712 × 75

(7) $8\overline{)1352}$

(8) $7\overline{)1946}$

Write these number words as **decimal numbers**.

(9) two hundred & sixty point four

(10) one point three nine five

Write these decimal numbers as **number words**.

(11) 450.9

(12) 1.726

(13) 28.34

77

Date: Time taken: Score:

(1) 306 + 527 =

(2) 708 + 594 =

(3) 783 - 536 =

(4) 903 - 272 =

(5) 3850 × 82

(6) 7629 × 57

(7) $8\overline{)3800}$

(8) $7\overline{)4256}$

Calculate the change in temperatures.

(9) Starting temperature 6°C, **rises** 5°C.

(10) Starting temperature 7°C, **drops** 9°C.

(11) Starting temperature 8°C, **rises** 3°C.

(12) Starting temperature $^{-}9$°C, **rises** 7°C.

(13) Starting temperature $^{-}1$°C, **drops** 8°C.

78

Date: Time taken: Score:

(1) 182 + 425 =

(2) 369 + 378 =

(3) 680 - 161 =

(4) 737 - 565 =

(5) 5041 × 28

(6) 6983 × 75

(7) $8\overline{)2344}$

(8) $7\overline{)4053}$

Calculate the **squares** of these numbers.

(9) 6^2 (10) 12^2 (11) 7^2

(12) 4^2 (13) 8^2 (14) 10^2

Calculate the **square roots** of these numbers.

(15) $\sqrt{9}$ (16) $\sqrt{100}$ (17) $\sqrt{25}$

(18) $\sqrt{81}$ (19) $\sqrt{64}$ (20) $\sqrt{121}$

79

Date: Time taken: Score:

(1) 143 + 728 =

(2) 311 + 893 =

(3) 856 - 268 =

(4) 806 - 511 =

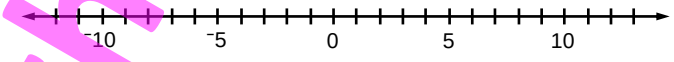
(5) 4172 × 80

(6) 3850 × 57

(7) $8\overline{)4544}$

(8) $7\overline{)3927}$

Add these positive and negative numbers



(9) 6 + 5 =

(10) $^{-}12 + 9$ =

(11) 8 + 4 =

(12) 11 + $^{-}7$ =

(13) $^{-}9 + 7$ =

(14) 7 + 6 =

(15) 8 + $^{-}6$ =

(16) $^{-}7 + ^{-}3$ =

80

Date: Time taken: Score:

(1) 180 + 345 =

(2) 768 + 329 =

(3) 865 - 195 =

(4) 766 - 439 =

(5) 7269 × 28

(6) 5401 × 75

(7) $8\overline{)3832}$

(8) $7\overline{)3710}$

(9) How much would 9 C.D.'s at $21.65 each cost?

(10) How much would 4 kilograms of meat at $15.75 per kilogram cost?

(11) If 7 exercise books cost $10.15, what is the cost of one exercise book?

81

Date: Time taken: Score:

(1) 628 + 337 =

(2) 376 + 469 =

(3) 380 - 154 =

(4) 766 - 493 =

(5) 1405 × 46

(6) 2967 × 39

(7) $2\overline{)1276}$

(8) $6\overline{)4314}$

Finding a **percentage** of a **quantity**. %

(9) 10% of 80 =

(10) 10% of 90 =

(11) 50% of 12 =

(12) 25% of 20 =

(13) 10% of 120 =

(14) 10% of 170 =

(15) 50% of 240 =

(16) 25% of 160 =

82

Date: Time taken: Score:

(1) 352 + 356 =

(2) 471 + 878 =

(3) 837 - 185 =

(4) 761 - 636 =

(5) 3085 × 64

(6) 1274 × 93

(7) $2\overline{)1092}$

(8) $6\overline{)3420}$

Finding a **fraction** of a **quantity**.

(9) $^1/_4$ of 48 =

(10) $^1/_8$ of 64 =

(11) $^1/_7$ of 56 =

(12) $^1/_{10}$ of 90 =

(13) $^1/_7$ of 210 =

(14) $^1/_4$ of 240 =

(15) $^1/_{10}$ of 170 =

(16) $^1/_8$ of 320 =

83

Date: Time taken: Score:

(1) 209 + 632 =

(2) 908 + 173 =

(3) 952 - 648 =

(4) 717 - 666 =

(5) 3986 × 46

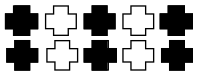
(6) 4150 × 39

(7) $2\overline{)1704}$

(8) $6\overline{)3702}$

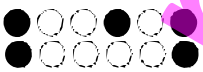
What **fraction** of each group of shapes is shaded?

(9) 

(10) 

(11) 

(12) 

(13) 

(14) 

(15) 

(16) 

84

Date: Time taken: Score:

(1) 383 + 251 =

(2) 463 + 287 =

(3) 952 - 648 =

(4) 363 - 269 =

(5) 3508 × 64

(6) 2471 × 93

(7) $2\overline{)1908}$

(8) $6\overline{)3954}$

(9) **Add** up Blair's shopping list.

$17.65
$25.37
$16.15
$7.64
+ $15.45

(10) If Blair paid for his groceries with five $20.00 notes, how much change would he get back?

-

85

Date: Time taken: Score:

(1) 584 + 108 =

(2) 580 + 984 =

(3) 580 + 984 =

(4) 594 - 186 =

(5) 3869 × 46

(6) 4105 × 39

(7) $2\overline{)1864}$

(8) $6\overline{)4680}$

Read each statement and **write** the information as a **fraction**. *Example:* 3 out of 4 is written as $^3/_4$

(9) Abbey scored 17 out of 25 in a test.

(10) It rained 25 days out of 30 days.

(11) It was sunny 6 days last week.

(12) What fraction of your class are boys?

86

Date: Time taken: Score:

(1) 361 + 597 =

(2) 833 + 259 =

(3) 636 - 296 =

(4) 642 - 546 =

(5) 6927 × 65

(6) 8035 × 78

(7) $4\overline{)2184}$

(8) $9\overline{)5130}$

List these decimals in **order** of **largest** to **smallest**.

7.3, 7.6, 7.1, 7.2, 7.7, 7.9, 7.4, 7.5, 7.8, 7.0

(9)

2.6, 2.1, 2.0, 2.9, 2.7, 2.4, 2.5, 2.3, 2.2, 2.8

(10)

4.13, 4.18, 4.17, 4.16, 4.12, 4.15, 4.19, 4.10

(11)

87

Date: Time taken: Score:

(1) 145 + 259 =

(2) 767 + 297 =

(3) 758 - 159 =

(4) 915 - 350 =

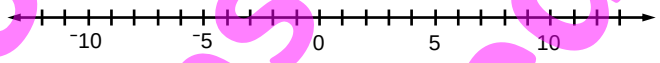
(5) 7142 × 65

(6) 3986 × 87

(7) $4\overline{)2328}$

(8) $9\overline{)1584}$

Add these positive and negative numbers



(9) 5 + 7 =

(10) $^{-}8 + 6$ =

(11) 4 + 9 =

(12) $5 + {}^{-}7$ =

(13) $^{-}2 + 3$ =

(14) 8 + 3 =

(15) $6 + {}^{-}4$ =

(16) $^{-}2 + {}^{-}4$ =

88

Date: Time taken: Score:

(1) 492 + 282 =

(2) 650 + 672 =

(3) 945 - 861 =

(4) 982 - 689 =

(5) 1450 × 56

(6) 2967 × 78

(7) $4\overline{)1980}$

(8) $9\overline{)5364}$

Match these **equivalent fractions**.

Example: $^{1}/_{2} = {}^{8}/_{16}$

(9) $^{5}/_{6}$ =

(10) $^{28}/_{40}$ =

(11) $^{5}/_{20}$ =

(12) $^{2}/_{3}$ =

(13) $^{2}/_{7}$ =

(14) $^{20}/_{25}$ =

(15) $^{12}/_{18}$ =

(16) $^{3}/_{5}$ =

Answers:

$^{1}/_{4}$ $^{15}/_{18}$ $^{16}/_{24}$ $^{2}/_{3}$ $^{7}/_{10}$ $^{6}/_{21}$ $^{12}/_{20}$ $^{4}/_{5}$

89

Date: Time taken: Score:

(1) 436 + 246 =

(2) 904 + 836 =

(3) 964 - 749 =

(4) 724 - 364 =

(5) 5803 × 65

(6) 7124 × 87

(7) $4\overline{)1316}$

(8) $9\overline{)6372}$

Prime numbers, multiples & factors

(9) **List** the **prime numbers** between **50** and **60**.

(10) **List** the first 5 **multiples** of **4**.

(11) **List** the first 5 **multiples** of **5**.

(12) **List** the **factors** of **32**.

(13) **List** the **factors** of **40**.

90

Date: Time taken: Score:

(1) 270 + 586 =

(2) 689 + 167 =

(3) 785 - 195 =

(4) 795 - 299 =

(5) 3986 × 56

(6) 1540 × 78

(7) $4\overline{)2732}$

(8) $9\overline{)1773}$

What is the **place value** of the **BOLD** digit in each number and what does it mean?

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

(9) 2.**5**

(10) 65.7**3**1

(11) **8**.78

(12) 8**2**0.9

(13) 3.0**7**

(14) 8.75**3**

(15) 9.**2**4

(16) **9**78.25

91

Date: Time taken: Score:

(1) 207 + 696 =

(2) 762 + 486 =

(3) 480 - 376 =

(4) 928 - 698 =

(5) 7124 × 29

(6) 3896 × 36

(7) $7\overline{)1995}$

(8) $5\overline{)3355}$

(9) How much would 6 C.D.'s at $33.95 each cost?

(10) How much would 3 kilograms of meat at $11.95 per kilogram cost?

(11) If 9 exercise books cost $7.83, what is the cost of one exercise book?

92

Date: Time taken: Score:

(1) 282 + 367 =

(2) 915 + 456 =

(3) 946 - 794 =

(4) 491 - 196 =

(5) 4150 × 92

(6) 6972 × 63

(7) $7\overline{)3213}$

(8) $5\overline{)2980}$

Order of **operations**. BEDMAS

(9) 4 × 5 + 17 =

(10) 15 ÷ 3 - 4 =

(11) 36 ÷ 6 + 9 =

(12) 7 × 8 - 39 =

(13) 19 + 24 ÷ 6 =

(14) 27 + 9 × 7 =

(15) 42 - 3 × 9 =

(16) 50 - 27 ÷ 9 =

93

Date: Time taken: Score:

(1) 413 + 437 =

(2) 548 + 272 =

(3) 975 - 126 =

(4) 759 - 299 =

(5) 5038 × 29

(6) 1472 × 36

(7) $7\overline{)2051}$

(8) $5\overline{)4035}$

Write these number words as **decimal numbers**.

(9) seven point five three two

(10) twenty-nine point four zero six

Write these decimal numbers as **number words**.

(11) 6.018

(12) 254.7

(13) 0.039

94

Date: Time taken: Score:

(1) 164 + 640 =

(2) 662 + 866 =

(3) 408 - 367 =

(4) 780 - 622 =

(5) 3896 × 92

(6) 4510 × 63

(7) $7\overline{)2702}$

(8) $5\overline{)4585}$

Convert these **fractions** to **decimals**.

Example: $^1/_2 = 0.5$

(9) $^1/_2$ =

(10) $^1/_4$ =

(11) $^1/_3$ =

(12) $^1/_5$ =

(13) $^2/_3$ =

(14) $^3/_4$ =

(15) $^2/_5$ =

(16) $^1/_{10}$ =

Answers

0.2 0.1

0.5 0.33·

0.75 0.25

0.66· 0.4

95

Date: Time taken: Score:

(1) 657 + 234 =

(2) 918 + 927 =

(3) 791 - 314 =

(4) 759 - 261 =

(5) 2697 × 29

(6) 5083 × 36

(7) $7\overline{)4515}$

(8) $5\overline{)3750}$

Calculate the **squares** of these numbers.

(9) 9^2

(10) 12^2

(11) 5^2

(12) 4^2

(13) 7^2

(14) 8^2

Calculate the **square roots** of these numbers.

(15) $\sqrt{9}$

(16) $\sqrt{100}$

(17) $\sqrt{81}$

(18) $\sqrt{121}$

(19) $\sqrt{36}$

(20) $\sqrt{25}$

96

Date: Time taken: Score:

(1) 395 + 494 =

(2) 283 + 388 =

(3) 807 - 226 =

(4) 587 - 249 =

(5) 5041 × 89

(6) 7296 × 47

(7) $3\overline{)2769}$

(8) $8\overline{)6960}$

Multiplying and **dividing** by **10**, **100** or **1000**.

(9) 12.8 × 100 =

(10) 4.812 × 1000 =

(11) 3.95 × 10 =

(12) 45.9 × 100 =

(13) 1.561 × 1000 =

(14) 78.9 ÷ 10 =

(15) 456 ÷ 100 =

(16) 1341 ÷ 1000 =

(17) 86.3 ÷ 10 =

(18) 45.8 ÷ 100 =

97

Date: Time taken: Score:

(1) 837 + 127 =

(2) 427 + 986 =

(3) 670 - 249 =

(4) 916 - 145 =

(5) 3850 × 98

(6) 4172 × 74

(7) $3\overline{)2862}$

(8) $8\overline{)4768}$

Multiplying and **dividing decimals**.

(9) 394.2 × 2.9

(10) 5.817 × 0.47

(11) $0.5\overline{)24.25}$

(12) $0.09\overline{)1.701}$

98

Date: Time taken: Score:

(1) 558 + 261 =

(2) 914 + 246 =

(3) 578 - 294 =

(4) 941 - 832 =

(5) 6938 × 89

(6) 4501 × 47

(7) $3\overline{)2556}$

(8) $8\overline{)1408}$

Round these numbers to the nearest 10, 100 or 1000, before working out an **estimated answer**.

(9) 591 + 216 ____ + ____ = ____

(10) 2974 - 622 ____ - ____ = ____

(11) 1395 × 53 ____ × ____ = ____

(12) 2099 ÷ 7 ____ ÷ ____ = ____

99

Date: Time taken: Score:

(1) 372 + 308 =

(2) 697 + 136 =

(3) 590 - 423 =

(4) 706 - 492 =

(5) 2679 × 98

(6) 3580 × 74

(7) $3\overline{)1962}$

(8) $8\overline{)4560}$

(9) **Add** up Rangi's shopping list.

$27.35
$15.63
$4.95
$32.25
+ $7.85

(10) If Rangi paid for his groceries with five $20.00 notes, how much change would he get back?

100

Date: Time taken: Score:

(1) 193 + 873 =

(2) 782 + 767 =

(3) 419 - 328 =

(4) 453 - 127 =

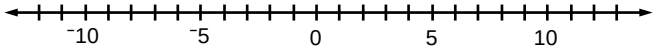
(5) 1742 × 89

(6) 3698 × 47

(7) $3\overline{)2508}$

(8) $8\overline{)5752}$

Add these positive and negative numbers



(9) 9 + 3 =

(10) $^{-}4 + 9$ =

(11) 4 + 7 =

(12) $10 + {}^{-}3$ =

(13) $^{-}7 + 5$ =

(14) 6 + 5 =

(15) $8 + {}^{-}3$ =

(16) $^{-}5 + {}^{-}2$ =

101

Date: Time taken: Score:

(1) 149 + 975 =

(2) 471 + 879 =

(3) 810 - 695 =

(4) 645 - 498 =

(5) 1593 × 28

(6) 7062 × 46

(7) $4\overline{)3344}$

(8) $5\overline{)2730}$

Convert these **decimals** to **fractions.**

Example: 0.5 = $^1/_2$

(9) 0.5 =

(10) 0.1 =

(11) 0.25 =

(12) 0.75 =

(13) 0.33· =

(14) 0.66· =

(15) 0.4 =

(16) 0.7 =

Answers

$^2/_5$ $^3/_4$

$^2/_3$ $^1/_2$

$^1/_3$ $^7/_{10}$

$^1/_4$ $^1/_{10}$

102

Date: Time taken: Score:

(1) 856 + 397 =

(2) 586 + 985 =

(3) 976 - 599 =

(4) 812 - 538 =

(5) 4915 × 75

(6) 9370 × 39

(7) $3\overline{)2556}$

(8) $6\overline{)5670}$

Finding a **fraction** of a **quantity.**

(9) $^1/_2$ of 7.8 =

(10) $^1/_3$ of 1.2 =

(11) $^1/_4$ of 9.6 =

(12) $^1/_5$ of 6.5 =

(13) $^1/_2$ of 14.6 =

(14) $^1/_4$ of 4.84 =

(15) $^1/_3$ of 3.69 =

(16) $^1/_5$ of 35.5 =

103

Date: Time taken: Score:

(1) 317 + 894 =

(2) 965 + 367 =

(3) 741 - 478 =

(4) 741 - 478 =

(5) 6249 × 29

(6) 5193 × 47

(7) $2\overline{)1846}$

(8) $8\overline{)5752}$

Prime numbers, multiples & factors

(9) **List** the **prime numbers** between **45** and **55.**

(10) **List** the first 5 **multiples** of **6.**

(11) **List** the first 5 **multiples** of **9.**

(12) **List** the **factors** of **36.**

(13) **List** the **factors** of **42.**

104

Date: Time taken: Score:

(1) 578 + 597 =

(2) 764 + 696 =

(3) 812 - 443 =

(4) 720 - 389 =

(5) 6072 × 65

(6) 1954 × 78

(7) $7\overline{)5250}$

(8) $9\overline{)6039}$

Match these **equivalent fractions.**

Example: $^1/_2 = {}^8/_{16}$

(9) $^1/_2$ =

(10) $^{10}/_{15}$ =

(11) $^9/_{27}$ =

(12) $^7/_{10}$ =

(13) $^3/_5$ =

(14) $^{12}/_{48}$ =

(15) $^{20}/_{25}$ =

(16) $^3/_4$ =

Answers:

$^2/_3$ $^5/_{10}$

$^{21}/_{28}$ $^1/_3$

$^{12}/_{20}$ $^1/_4$

$^4/_5$ $^{21}/_{30}$

105

Date: Time taken: Score:

(1) 849 + 382 =

(2) 634 + 879 =

(3) 640 - 456 =

(4) 931 - 587 =

(5) 7093 × 36

(6) 2496 × 89

(7) $6\overline{)5736}$

(8) $8\overline{)6240}$

Multiplying and **dividing** by **powers of 10.**

(9) 1.9×10^2 =

(10) 9.3×10^3 =

(11) $3.4 \div 10^3$ =

(12) $7.5 \div 10^2$ =

(13) 9.2×10^4 =

(14) 4.7×10^6 =

(15) $5.3 \div 10^5$ =

106

Date: Time taken: Score:

(1) 269 + 978 =

(2) 672 + 978 =

(3) 684 - 396 =

(4) 702 - 187 =

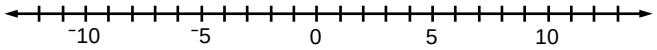
(5) 7602 × 82

(6) 1594 × 64

(7) $5\overline{)3415}$

(8) $9\overline{)4104}$

Add these positive and negative numbers



(9) 5 + 8 =

(10) $^{-}3 + 6$ =

(11) 7 + 6 =

(12) $7 + {}^{-}5$ =

(13) $^{-}4 + 7$ =

(14) 9 + 2 =

(15) $5 + {}^{-}9$ =

(16) $^{-}3 + {}^{-}4$ =

107

Date: Time taken: Score:

(1) 837 + 296 =

(2) 837 + 296 =

(3) 551 - 276 =

(4) 551 - 276 =

(5) 3970 × 57

(6) 2496 × 93

(7) $4\overline{)3300}$

(8) $7\overline{)4158}$

Write these number words as **decimal numbers**.

(9) fifty-four point three nine two

(10) six hundred & seven point four five

Write these decimal numbers as **number words**.

(11) 907.3

(12) 1.608

(13) 45.26

108

Date: Time taken: Score:

(1) 853 + 488 =

(2) 957 + 358 =

(3) 467 - 168 =

(4) 962 - 386 =

(5) 1935 × 92

(6) 6207 × 72

(7) $9\overline{)8388}$

(8) $2\overline{)1942}$

Convert these **fractions** to **decimals**.

Example: $^1/_2 = 0.5$

(9) $^1/_3$ =

(10) $^2/_3$ =

(11) $^1/_{10}$ =

(12) $^3/_4$ =

(13) $^1/_4$ =

(14) $^2/_5$ =

(15) $^1/_5$ =

(16) $^1/_2$ =

Answers	
0.2	0.1
0.5	0.33·
0.75	0.25
0.66·	0.4

109

Date: Time taken: Score:

(1) 596 + 538 =

(2) 598 + 926 =

(3) 620 - 153 =

(4) 763 - 396 =

(5) 1945 × 56

(6) 3709 × 87

(7) $3\overline{)2115}$

(8) $7\overline{)5012}$

(9) How much would 5 C.D.'s at $27.95 each cost?

(10) How much would 2 kilograms of meat at $15.95 per kilogram cost?

(11) If 6 exercise books cost $5.82, what is the cost of one exercise book?

110

Date: Time taken: Score:

(1) 985 + 157 =

(2) 764 + 949 =

(3) 761 - 579 =

(4) 734 - 497 =

(5) 2496 × 63

(6) 1593 × 98

(7) $8\overline{)4552}$

(8) $6\overline{)4248}$

Finding a **percentage** of a **quantity**. %

(9) 10% of 40 =

(10) 10% of 37 =

(11) 25% of 48 =

(12) $33\frac{1}{3}$% of 30 =

(13) 10% of 240 =

(14) 50% of 275 =

(15) 20% of 150 =

(16) 25% of 280 =

111

Date: Time taken: Score:

(1) 976 + 748 =

(2) 667 + 868 =

(3) 704 - 528 =

(4) 420 - 137 =

(5) 4915 × 28

(6) 3970 × 46

(7) $4\overline{)2184}$

(8) $5\overline{)4260}$

(9) **Add** up Kate's shopping list.

$37.95
$25.87
$16.95
$27.64
+ $9.65

(10) If Kate paid for her groceries with six $20.00 notes, how much change would she get back?

112

Date: Time taken: Score:

(1) 786 + 769 =

(2) 842 + 998 =

(3) 321 - 192 =

(4) 903 - 698 =

(5) 6249 × 75

(6) 1953 × 39

(7) $3\overline{)2835}$

(8) $6\overline{)5592}$

What is the **place value** of the **BOLD** digit in each number and what does it mean?

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

(9) 3.**4**

(10) 96.7**3**5

(11) **6**.78

(12) **7**20.9

(13) 9.0**7**

(14) 6.1**4**9

(15) 3.**8**2

(16) **7**14.08

113

Date: Time taken: Score:

(1) 298 + 848 =

(2) 792 + 748 =

(3) 853 - 497 =

(4) 416 - 289 =

(5) 6072 × 29

(6) 1945 × 47

(7) $2\overline{)1942}$

(8) $8\overline{)5640}$

Order of **operations**. BEDMAS

(9) 8 × 7 + 25 =

(10) 45 ÷ 5 - 7 =

(11) 36 ÷ 4 + 13 =

(12) 6 × 9 - 29 =

(13) 19 + 30 ÷ 2 =

(14) 23 + 9 × 9 =

(15) 83 - 9 × 8 =

(16) 75 - 63 ÷ 7 =

114

Date: Time taken: Score:

(1) 895 + 676 =

(2) 488 + 726 =

(3) 825 - 546 =

(4) 540 - 161 =

(5) 2790 × 65

(6) 6249 × 78

(7) $7\overline{)4697}$

(8) $9\overline{)5364}$

List these decimals in **order** of **smallest** to **largest**.

8.3, 8.4, 8.9, 8.0, 8.1, 8.5, 8.6, 8.7, 8.2, 8.8

(9)

2.6, 2.4, 2.9, 2.0, 2.5, 2.0, 2.3, 2.7, 2.6, 2.8

(10)

1.03, 1.07, 1.09, 1.04, 1.02, 1.08, 1.01, 1.05

(11)

115

Date: Time taken: Score:

(1) 979 + 368 =

(2) 783 + 588 =

(3) 953 - 484 =

(4) 836 - 378 =

(5) 1593 × 36

(6) 7062 × 89

(7) $6\overline{)4680}$

(8) $8\overline{)5104}$

Convert these **decimals** to **fractions**.

Example: 0.5 = $\frac{1}{2}$

(9) 0.25 =

(10) 0.5 =

(11) 0.4 =

(12) 0.7 =

(13) 0.75 =

(14) 0.66$\dot{6}$ =

(15) 0.3$\dot{3}$ =

(16) 0.1 =

Answers

$\frac{2}{5}$ $\frac{3}{4}$
$\frac{2}{3}$ $\frac{1}{2}$
$\frac{1}{3}$ $\frac{7}{10}$
$\frac{1}{4}$ $\frac{1}{10}$

116

Date: Time taken: Score:

(1) 936 + 974 =

(2) 578 + 883 =

(3) 953 - 484 =

(4) 836 - 378 =

(5) 3790 × 82

(6) 2649 × 64

(7) $5\overline{)3270}$

(8) $9\overline{)7425}$

Prime numbers, multiples & factors

(9) **List** the **prime numbers** between **60** and **70**.

(10) **List** the first 5 **multiples** of **6**.

(11) **List** the first 5 **multiples** of **7**.

(12) **List** the **factors** of **45**.

(13) **List** the **factors** of **48**.

117

Date: Time taken: Score:

(1) 695 + 746 =

(2) 978 + 947 =

(3) 910 - 478 =

(4) 623 - 365 =

(5) 1539 × 57

(6) 2607 × 93

(7) $4\overline{)3816}$

(8) $7\overline{)2744}$

Convert these **decimals** to **percentages**.

Example: 0.5 = 50%

(9) 0.5 =

(10) 0.95 =

(11) 0.75 =

(12) 0.15 =

(13) 0.6 =

(14) 0.25 =

(15) 0.45 =

(16) 0.4 =

Answers

15% 25%

45% 50%

60% 40%

95% 75%

118

Date: Time taken: Score:

(1) 892 + 779 =

(2) 794 + 326 =

(3) 915 - 759 =

(4) 602 - 275 =

(5) 1954 × 92

(6) 3709 × 74

(7) $9\overline{)7119}$

(8) $2\overline{)1410}$

(9) **Add** up Rangi's shopping list.

$34.25
$15.45
$26.60
$7.95
+ $18.45

(10) If Rangi paid for his groceries with six $20.00 notes, how much change would he get back?

119

Date: Time taken: Score:

(1) 654 + 598 =

(2) 979 + 956 =

(3) 951 - 164 =

(4) 830 - 652 =

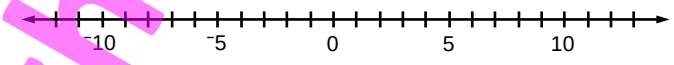
(5) 2649 × 56

(6) 3159 × 87

(7) $3\overline{)2283}$

(8) $7\overline{)6755}$

Add these positive and negative numbers



(9) 5 + 6 =

(10) $^{-}7 + 7$ =

(11) 8 + 5 =

(12) 9 + $^{-}8$ =

(13) $^{-}9 + 5$ =

(14) 2 + 9 =

(15) 6 + $^{-}4$ =

(16) $^{-}2 + ^{-}7$ =

120

Date: Time taken: Score:

(1) 678 + 654 =

(2) 878 + 539 =

(3) 902 - 739 =

(4) 918 - 429 =

(5) 2706 × 63

(6) 1594 × 98

(7) $8\overline{)6960}$

(8) $6\overline{)5016}$

Round these numbers to the nearest 10, 100 or 1000, before working out an **estimated answer**.

(9) 623 + 867 ____ + ____ = ____

(10) 6175 - 716 ____ - ____ = ____

(11) 9431 × 29 ____ × ____ = ____

(12) 4514 ÷ 9 ____ ÷ ____ = ____

121

Date: Time taken: Score:

(1) 298 + 954 =

(2) 753 + 967 =

(3) 941 - 383 =

(4) 774 - 289 =

(5) 6249 × 28

(6) 1593 × 46

(7) $4\overline{)3300}$

(8) $5\overline{)4770}$

Multiplying and **dividing** by **powers of 10.**

(9) $6.3 \times 10^3 =$

(10) $8.2 \times 10^2 =$

(11) $1.9 \div 10^2 =$

(12) $7.4 \div 10^3 =$

(13) $2.8 \times 10^6 =$

(14) $1.6 \times 10^4 =$

(15) $7.3 \div 10^5 =$

122

Date: Time taken: Score:

(1) 637 + 597 =

(2) 487 + 753 =

(3) 502 - 354 =

(4) 530 - 264 =

(5) 6270 × 75

(6) 1914 × 39

(7) $3\overline{)2796}$

(8) $6\overline{)4314}$

(9) How much would 8 C.D.'s at $17.95 each cost?

(10) How much would 4 kilograms of meat at $9.85 per kilogram cost?

(11) If 5 exercise books cost $6.25, what is the cost of one exercise book?

123

Date: Time taken: Score:

(1) 789 + 494 =

(2) 958 + 275 =

(3) 814 - 319 =

(4) 814 - 265 =

(5) 3970 × 29

(6) 2496 × 47

(7) $2\overline{)1500}$

(8) $8\overline{)5728}$

Convert these **fractions** to **decimals.**

Example: $^1/_2 = 0.5$

(9) $^1/_5 =$

(10) $^1/_3 =$

(11) $^2/_3 =$

(12) $^2/_5 =$

(13) $^1/_{10} =$

(14) $^1/_2 =$

(15) $^1/_4 =$

(16) $^3/_4 =$

Answers	
0.2	0.1
0.5	0.33·
0.75	0.25
0.66·	0.4

124

Date: Time taken: Score:

(1) 598 + 862 =

(2) 989 + 136 =

(3) 976 - 599 =

(4) 741 - 478 =

(5) 4159 × 36

(6) 3970 × 89

(7) $6\overline{)5178}$

(8) $8\overline{)5232}$

Read each statement and **write** the information as a **fraction.** *Example:* 3 out of 4 is written as $^3/_4$

(9) Abbey scored 23 out of 30 in a test.

(10) It rained 15 days out of 60 days.

(11) It was sunny 3 days last week.

(12) What fraction of your class are males?

125

Date: Time taken: Score:

(1) 787 + 935 =

(2) 693 + 459 =

(3) 927 - 279 =

(4) 810 - 695 =

(5) 1359 × 65

(6) 6702 × 78

(7) $7\overline{)6755}$

(8) $9\overline{)7020}$

Convert these **percentages** to **decimals.**

Example: 50% = 0.5

(9) 60% =

(10) 40% =

(11) 85% =

(12) 50% =

(13) 47% =

(14) 75% =

(15) 25% =

(16) 5% =

Answers	
0.05	0.75
0.47	0.5
0.6	0.25
0.85	0.4

126

Date: Time taken: Score:

(1) 149 + 975 =

(2) 856 + 397 =

(3) 812 - 443 =

(4) 741 - 478 =

(5) 2750 × 28

(6) 9316 × 46

(7) $5\overline{)4125}$

(8) $9\overline{)4941}$

Finding a fraction of a quantity.

(9) $^1/_4$ of 3.2 =

(10) $^1/_6$ of 72 =

(11) $^1/_7$ of 8.4 =

(12) $^1/_{10}$ of 85 =

(13) $^1/_6$ of 18.6 =

(14) $^1/_7$ of 2.24 =

(15) $^1/_{10}$ of 6.50 =

(16) $^1/_4$ of 6.52 =

127

Date: Time taken: Score:

(1) 317 + 894 =

(2) 578 + 597 =

(3) 812 - 443 =

(4) 640 - 456 =

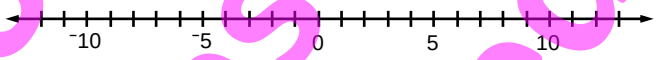
(5) 4827 × 75

(6) 5039 × 93

(7) $4\overline{)3728}$

(8) $7\overline{)6419}$

Add these positive and negative numbers



(9) 3 + 8 =

(10) $^-7 + 9$ =

(11) 6 + 6 =

(12) $4 + {}^-6$ =

(13) $^-1 + 9$ =

(14) 9 + 4 =

(15) $5 + {}^-8$ =

(16) $^-7 + {}^-3$ =

128

Date: Time taken: Score:

(1) 849 + 382 =

(2) 269 + 978 =

(3) 684 - 396 =

(4) 551 - 276 =

(5) 1648 × 29

(6) 2570 × 47

(7) $9\overline{)6345}$

(8) $2\overline{)1432}$

Convert these decimals to fractions.

Example: 0.5 = $^1/_2$

(9) 0.1 =

(10) $0.66\dot{}$ =

(11) 0.75 =

(12) 0.7 =

(13) $0.33\dot{}$ =

(14) 0.4 =

(15) 0.5 =

(16) 0.25 =

Answers

$^2/_5$ $^3/_4$
$^2/_3$ $^1/_2$
$^1/_3$ $^7/_{10}$
$^1/_4$ $^1/_{10}$

129

Date: Time taken: Score:

(1) 837 + 296 =

(2) 853 + 488 =

(3) 551 - 276 =

(4) 467 - 168 =

(5) 1693 × 65

(6) 2748 × 78

(7) $3\overline{)2895}$

(8) $7\overline{)6090}$

Finding a percentage of a quantity. %

(9) 10% of 85 =

(10) 50% of 96 =

(11) $33\frac{1}{3}$% of 60 =

(12) 25% of 84 =

(13) 10% of 52.6 =

(14) 25% of 24.8 =

(15) 50% of 125 =

(16) 20% of 160 =

130

Date: Time taken: Score:

(1) 596 + 538 =

(2) 985 + 157 =

(3) 620 - 153 =

(4) 645 - 498 =

(5) 3950 × 36

(6) 1468 × 89

(7) $8\overline{)6688}$

(8) $6\overline{)3276}$

Convert these decimals to percentages.

Example: 0.5 = 50%

(9) 0.3 =

(10) 0.9 =

(11) 0.75 =

(12) 0.05 =

(13) 0.6 =

(14) 0.25 =

(15) 0.47 =

(16) 0.60 =

Answers

60% 75%
90% 25%
47% 30%
5% 60%

131

Date: Time taken: Score:

(1) 471 + 879 =

(2) 586 + 985 =

(3) 812 - 538 =

(4) 805 - 347 =

(5) 3196 × 82

(6) 2847 × 64

(7) $4\overline{)2196}$

(8) $5\overline{)4615}$

Order of **operations.**

(9) 8 × 7 + 29 =

(10) 96 ÷ 8 - 7 =

(11) 72 ÷ 9 + 17 =

(12) 20 × 4 - 49 =

(13) 47 + 45 ÷ 5 =

(14) 23 + 6 × 7 =

(15) 81 - 7 × 7 =

(16) 63 - 36 ÷ 9 =

132

Date: Time taken: Score:

(1) 965 + 367 =

(2) 764 + 696 =

(3) 720 - 389 =

(4) 931 - 587 =

(5) 3509 × 57

(6) 4168 × 39

(7) $3\overline{)2157}$

(8) $6\overline{)3420}$

(9) **Add** up Miri's shopping list.

$27.35
$16.24
$23.65
$30.24
+ $12.75

(10) If Miri paid for his groceries with six $20.00 notes, how much change would he get back?

133

Date: Time taken: Score:

(1) 634 + 879 =

(2) 672 + 978 =

(3) 702 - 187 =

(4) 806 - 117 =

(5) 2570 × 92

(6) 6139 × 74

(7) $2\overline{)1234}$

(8) $8\overline{)7720}$

Calculate the **squares** of these numbers.

(9) 9^2 (10) 11^2 (11) 10^2

(12) 8^2 (13) 7^2 (14) 12^2

Calculate the **square roots** of these numbers.

(15) $\sqrt{16}$ (16) $\sqrt{64}$ (17) $\sqrt{144}$

(18) $\sqrt{36}$ (19) $\sqrt{100}$ (20) $\sqrt{81}$

134

Date: Time taken: Score:

(1) 949 + 861 =

(2) 957 + 358 =

(3) 962 - 386 =

(4) 763 - 396 =

(5) 2874 × 56

6. 3590 × 87

(7) $7\overline{)5460}$

(8) $9\overline{)5742}$

Convert these **percentages** to **decimals.**

Example: 50% = 0.5

(9) 50% = (10) 30% =

(11) 25% = (12) 90% =

(13) 15% = (14) 75% =

(15) 29% = (16) 40% =

Answers

0.25 0.75
0.4 0.5
0.9 0.29
0.15 0.3

135

Date: Time taken: Score:

(1) 598 + 926 =

(2) 764 + 949 =

(3) 761 - 579 =

(4) 704 - 528 =

(5) 1684 × 63

(6) 2570 × 98

(7) $6\overline{)2790}$

(8) $8\overline{)2280}$

Prime numbers, multiples & factors

(9) **List** the **prime numbers** between **20** and **40**.

(10) **List** the first 5 **multiples** of **7**.

(11) **List** the first 5 **multiples** of **8**.

(12) **List** the **factors** of **50**.

(13) **List** the **factors** of **54**.

136

Date: Time taken: Score:

(1) 976 + 748 =

(2) 786 + 769 =

(3) 786 + 769 =

(4) 853 - 497 =

(5) 2748 × 28

(6) 5093 × 46

(7) $5\overline{)2970}$

(8) $9\overline{)2961}$

Convert these **fractions** to **decimals**.

Example: $^1/_2 = 0.5$

(9) $^1/_2$ =

(10) $^1/_4$ =

(11) $^3/_4$ =

(12) $^1/_5$ =

(13) $^1/_{10}$ =

(14) $^1/_3$ =

(15) $^2/_3$ =

(16) $^3/_5$ =

Answers

0.33· 0.75

0.25 0.6

0.66· 0.5

0.2 0.1

137

Date: Time taken: Score:

(1) 298 + 848 =

(2) 895 + 676 =

(3) 825 - 546 =

(4) 953 - 484 =

(5) 1648 × 75

(6) 2750 × 93

(7) $4\overline{)3884}$

(8) $7\overline{)3990}$

Convert these **decimals** to **percentages**.

Example: 0.5 = 50%

(9) 0.64 =

(10) 0.3 =

(11) 0.5 =

(12) 0.75 =

(13) 0.95 =

(14) 0.4 =

(15) 0.05 =

(16) 0.25 =

Answers

75% 25%

40% 64%

5% 50%

30% 95%

138

Date: Time taken: Score:

(1) 979 + 368 =

(2) 979 + 368 =

(3) 910 - 478 =

(4) 915 - 759 =

(5) 3196 × 29

(6) 4827 × 47

(7) $9\overline{)1584}$

(8) $2\overline{)1138}$

(9) How much would 7 C.D.'s at $16.45 each cost?

(10) How much would 3 kilograms of meat at $12.95 per kilogram cost?

(11) If 8 exercise books cost $7.60, what is the cost of one exercise book?

139

Date: Time taken: Score:

(1) 695 + 974 =

(2) 892 + 779 =

(3) 951 - 164 =

(4) 734 - 497 =

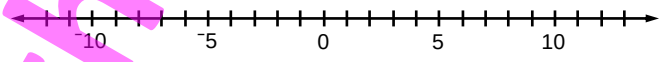
(5) 5093 × 65

(6) 1648 × 78

(7) $3\overline{)6960}$

(8) $7\overline{)5852}$

Add these positive and negative numbers



(9) 6 + 4 =

(10) $^-7 + 8$ =

(11) 3 + 9 =

(12) $3 + ^-5$ =

(13) $^-9 + 7$ =

(14) 7 + 4 =

(15) $8 + ^-8$ =

(16) $^-4 + ^-5$ =

140

Date: Time taken: Score:

(1) 654 + 598 =

(2) 678 + 654 =

(3) 420 - 137 =

(4) 903 - 698 =

(5) 2750 × 36

(6) 3916 × 89

(7) $8\overline{)5232}$

(8) $6\overline{)4950}$

Write these number words as **decimal numbers**.

(9) zero point five three nine one

(10) sixteen point four two seven

Write these decimal numbers as **number words**.

(12) 26.09

(13) 146.7

(14) 5.008

141

Date: Time taken: Score:

(1) 667 + 868 =

(2) 842 + 998 =

(3) 416 - 289 =

(4) 540 - 161 =

(5) 5093 × 82

(6) 1648 × 64

(7) $4\overline{)3728}$

(8) $5\overline{)4585}$

(9) **Add** up Rangi's shopping list.

$14.95
$35.34
$18.75
$8.95
+ $27.15

(10) If Rangi paid for his groceries with six $20.00 notes, how much change would he get back?

142

Date: Time taken: Score:

(1) 792 + 748 =

(2) 488 + 726 =

(3) 836 - 378 =

(4) 623 - 365 =

(5) 2750 × 57

(6) 3961 × 39

(7) $3\overline{)2115}$

(8) $6\overline{)4296}$

Read each statement and **write** the information as a **fraction**. *Example:* 3 out of 4 is written as $^3/_4$

(9) Abbey scored 47 out of 50 in a test.

(10) It rained 45 days out of 100 days.

(11) It was sunny 5 days last week.

(12) What fraction of your class are females?

143

Date: Time taken: Score:

(1) 783 + 588 =

(2) 578 + 883 =

(3) 602 - 275 =

(4) 830 - 652 =

(5) 4827 × 92

(6) 3950 × 74

(7) $2\overline{)1930}$

(8) $8\overline{)6960}$

Finding a **fraction** of a **quantity**.

(9) $^1/_3$ of 5.4 =

(10) $^1/_5$ of 9.5 =

(11) $^1/_8$ of 9.6 =

(12) $^1/_9$ of 5.4 =

(13) $^1/_5$ of 23.5 =

(14) $^1/_8$ of 3.76 =

(15) $^1/_9$ of 2.07 =

(16) $^1/_3$ of 25.5 =

144

Date: Time taken: Score:

(1) 978 + 947 =

(2) 794 + 326 =

(3) 830 - 652 =

(4) 902 - 739 =

(5) 1486 × 56

(6) 2570 × 87

(7) $7\overline{)2702}$

(8) $9\overline{)4185}$

Multiplying and **dividing** by **powers of 10**.

(9) $9.3 \times 10^2 =$

(10) $6.1 \times 10^3 =$

(11) $5.4 \div 10^3 =$

(12) $7.5 \div 10^2 =$

(13) $1.2 \times 10^4 =$

(14) $3.7 \times 10^6 =$

(15) $6.7 \div 10^5 =$

145

Date: Time taken: Score:

(1) 979 + 956 =

(2) 878 + 539 =

(3) 918 - 429 =

(4) 941 - 383 =

(5) 3196 × 63

(6) 2874 × 98

(7) $6\overline{)4950}$

(8) $8\overline{)3960}$

Convert these **percentages** to **decimals**.

Example: 50% = 0.5

(9) 25% =

(10) 10% =

(11) 64% =

(12) 50% =

(13) 5% =

(14) 75% =

(15) 90% =

(16) 15% =

Answers

0.15 0.64
0.9 0.75
0.05 0.25
0.1 0.5

146

Date: Time taken: Score:

(1) 298 + 954 =

(2) 753 + 967 =

(3) 774 - 289 =

(4) 502 - 354 =

(5) 1648 × 28

(6) 2750 × 46

(7) $5\overline{)4615}$

(8) $9\overline{)1611}$

(9) How much would 9 C.D.'s at $24.95 each cost?

(10) How much would 5 kilograms of meat at $7.95 per kilogram cost?

(11) If 7 exercise books cost $9.45, what is the cost of one exercise book?

147

Date: Time taken: Score:

(1) 637 + 597 =

(2) 487 + 753 =

(3) 502 - 354 =

(4) 530 - 264 =

(5) 3169 × 75

(6) 2874 × 93

(7) $4\overline{)2028}$

(8) $7\overline{)5012}$

Finding a percentage of a quantity. %

(9) 10% of 5.6 =

(10) 50% of 87 =

(11) $33\frac{1}{3}$% of 48 =

(12) 25% of 96 =

(13) 10% of 45.6 =

(14) 50% of 175 =

(15) 25% of 280 =

(16) 20% of 140 =

148

Date: Time taken: Score:

(1) 789 + 494 =

(2) 958 + 275 =

(3) 814 - 265 =

(4) 931 - 245 =

(5) 3095 × 29

(6) 4168 × 47

(7) $9\overline{)5364}$

(8) $2\overline{)1740}$

Prime numbers, multiples & factors

(9) **List** the **prime numbers** between **40** and **60**.

(10) **List** the first 5 **multiples** of **8**.

(11) **List** the first 5 **multiples** of **9**.

(12) **List** the **factors** of **56**.

(13) **List** the **factors** of **60**.

149

Date: Time taken: Score:

(1) 958 + 275 =

(2) 787 + 935 =

(3) 927 - 279 =

(4) 620 - 153 =

(5) 2570 × 65

(6) 3196 × 78

(7) $3\overline{)2589}$

(8) $7\overline{)4578}$

Order of operations. BEDMAS

(9) 6 × 8 + 35 =

(10) 56 ÷ 7 - 7 =

(11) 84 ÷ 7 + 17 =

(12) 12 × 6 - 49 =

(13) 33 + 42 ÷ 6 =

(14) 23 + 9 × 9 =

(15) 91 - 8 × 8 =

(16) 74 - 45 ÷ 3 =

150

Date: Time taken: Score:

(1) 693 + 459 =

(2) 598 + 862 =

(3) 467 - 168 =

(4) 953 - 484 =

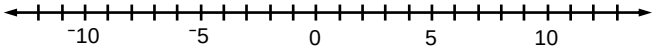
(5) 2874 × 36

(6) 3059 × 89

(7) $8\overline{)6600}$

(8) $6\overline{)5724}$

Add these positive and negative numbers



(9) 3 + 7 =

(10) $^{-}6 + 3$ =

(11) 9 + 3 =

(12) $10 + {}^{-}9$ =

(13) $^{-}5 + 8$ =

(14) 8 + 5 =

(15) $4 + {}^{-}7$ =

(16) $^{-}2 + {}^{-}7$ =

Assessment Section

There are **TWO** parallel **Assessment Sheets**, divided into **FIVE** sections.

Example: A1 = Numeracy facts / Number Knowledge assessment appropriate for each resource.

A2, A3, A4 & A5 cover the Number Strand objectives from the appropriate level.

The **Assessment Sheets** are divided into **FIVE sections** so that the entire assessment does not have to be completed all at the same time.

One Assessment Sheet can be used as a **pre-test** to identify the Numeracy / Number Knowledge skill level your child is already working at and / or the Number Strand knowledge your child has. The remaining Assessment Sheets can be used as a **post-test** to determine the improvement made.

The **'Complete Guide to Daily Number Revision'** is a **skills mastery programme**.

The **degree of accuracy** required may seem high, but if your child knows what standard is expected, they have something to aim for.

The objective is for your child to be able to **recall** the **basic numeracy facts / Number Strand Objectives** with **accuracy** and then later on with **accuracy** and **speed**.

At the bottom of each section (A1 to A5), there is a place to record the number of correct answers, obtained by counting all possible correct answers (ticks).

Example: There may be 10 numbered questions, but 30 individual questions.

Marking Schedule (Circle **S**, **A** or **D**)
S = Shows strength (30 all correct)
A = Achieved (24 to 29 correct)
D = Developing (less than 24 correct)

The **degree of accuracy** required is shown in the table below.

Descriptors	Degree of Accuracy Achieved	*Example:*
S = Shows Strength	100% accuracy	30 out of 30
A = Achieved	80% - 99% accuracy	24 to 29 out of 30
D = Developing	less than 80% accuracy	less than 24 out of 30

The **descriptors** listed in the box are used to describe the mastery skill level your child is working at.

On these sheets you can either record the actual score or circle one of the descriptor letters **S**, **A** or **D**.

A1

Daily Number Revision Numeracy Skills Assessment

A: Adding 3 digit numbers - no carrying

(1) 310 + 429 = _____
(2) 415 + 542 = _____
(3) 634 + 304 = _____
(4) 210 + 418 = _____
(5) 753 + 103 = _____
(6) 820 + 126 = _____
(7) 202 + 647 = _____
(8) 605 + 223 = _____
(9) 531 + 126 = _____
(10) 537 + 310 = _____

B: Adding 3 digit numbers - carrying

(1) 679 + 456 = _____
(2) 794 + 957 = _____
(3) 169 + 988 = _____
(4) 867 + 378 = _____
(5) 795 + 935 = _____
(6) 678 + 579 = _____
(7) 986 + 826 = _____
(8) 827 + 598 = _____
(9) 498 + 868 = _____
(10) 399 + 749 = _____

C: Subtracting 3 digit numbers - no renaming

(1) 792 - 682 = _____
(2) 678 - 448 = _____
(3) 839 - 603 = _____
(4) 694 - 154 = _____
(5) 789 - 460 = _____
(6) 517 - 301 = _____
(7) 954 - 321 = _____
(8) 873 - 301 = _____
(9) 596 - 316 = _____
(10) 758 - 402 = _____

D: Subtracting 3 digit numbers - renaming

(1) 803 - 236 = _____
(2) 913 - 454 = _____
(3) 447 - 258 = _____
(4) 525 - 197 = _____
(5) 742 - 297 = _____
(6) 604 - 478 = _____
(7) 861 - 478 = _____
(8) 725 - 348 = _____
(9) 603 - 368 = _____
(10) 961 - 594 = _____

E: Multiplying - mixed

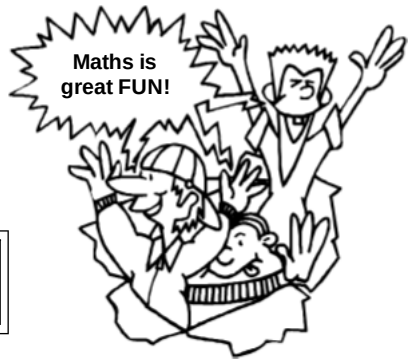
(1) 1 × 2 = _____
(2) 6 × 5 = _____
(3) 8 × 3 = _____
(4) 4 × 4 = _____
(5) 9 × 6 = _____
(6) 2 × 7 = _____
(7) 5 × 8 = _____
(8) 7 × 9 = _____
(9) 10 × 2 = _____
(10) 2 × 5 = _____
(11) 3 × 3 = _____
(12) 7 × 4 = _____
(13) 3 × 6 = _____
(14) 8 × 7 = _____
(15) 9 × 8 = _____
(16) 4 × 9 = _____
(17) 6 × 2 = _____
(18) 10 × 5 = _____
(19) 5 × 3 = _____
(20) 0 × 4 = _____

F: Dividing - mixed

(1) 36 ÷ 6 = _____
(2) 28 ÷ 7 = _____
(3) 48 ÷ 8 = _____
(4) 18 ÷ 9 = _____
(5) 6 ÷ 2 = _____
(6) 5 ÷ 5 = _____
(7) 27 ÷ 3 = _____
(8) 20 ÷ 4 = _____
(9) 6 ÷ 6 = _____
(10) 70 ÷ 7 = _____
(11) 16 ÷ 8 = _____
(12) 54 ÷ 9 = _____
(13) 16 ÷ 2 = _____
(14) 25 ÷ 5 = _____
(15) 21 ÷ 3 = _____
(16) 36 ÷ 4 = _____
(17) 24 ÷ 6 = _____
(18) 42 ÷ 7 = _____
(19) 80 ÷ 8 = _____
(20) 81 ÷ 9 = _____

Section	Summary of Scores
A	_____ / 10
B	_____ / 10
C	_____ / 10
D	_____ / 10
E	_____ / 20
F	_____ / 20
Total:	_____ / 80

Marking Schedule (Circle **S**, **A** or **D**)
S = Shows strength (all correct)
A = Achieved (64 to 79 correct)
D = Developing (less than 64 correct)
/80



A2

Number Assessment

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

seventeen point five two six _____

six point three nine eight _____

(2) **Write** these decimal numbers as **number words**

0.459 _____

27.863 _____

(3) **Write** these decimals in order of **smallest** to **largest**.

1.33, 1.35, 1.38, 1.36, 1.37, 1.39, 1.34, 1.30

_____

(4) Prime numbers, multiples & factors

List the **prime numbers** between **2** and **15**. _____

List the first 5 **multiples** of **7**. _____

List the **factors** of **12**. _____

(5) **Calculate** the **squares** of these numbers.

8^2 _____ 12^2 _____ 7^2 _____

(6) **Calculate** the **square roots** of these numbers.

$\sqrt{36}$ _____ $\sqrt{100}$ _____ $\sqrt{64}$ _____

(7) **Adding** and **subtracting** decimals.

2.78 + 3.49 = _____ 8.41 - 4.09 = _____

57.87 + 59.76 = _____ 29.76 - 15.99 = _____

(8) **Multiplying** and **dividing** decimals.

16.43 × 3.5 _____

257.8 × 0. 24 _____

0.6) 27.12 _____

0.08) 2.792 _____

(9) **Multiplying** and **dividing** by **10**, **100** or **1000**.

8.93 × 100 = _____ 14.5 ÷ 100 = _____

26.7 × 10 = _____ 9.03 ÷ 10 = _____

(10) **Multiplying** and **dividing** by **powers of 10**.

4.9 × 10^2 = _____ 7.3 ÷ 10^2 = _____

Marking Schedule (Circle **S**, **A** or **D**)
S = Shows strength (**All** 28 correct)
A = Achieved (22 to 27 correct)
D = Developing (less than 22 correct)

/28

A3

Number Assessment

(1) How much would 7 C.D.'s at $15.95 each cost? _____

(2) How much would 3 kilograms of meat at $13.75 per kilogram cost? _____

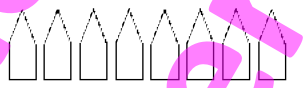
(3) If 8 exercise books cost $4.25, what is the cost of one exercise book? _____

(4) **Add** up Jan's shopping list / work out her change.

$21.95
$13.60
$12.65
$17.60
+ $9.85
_____

If Jan paid for her purchases with four $20.00 notes, how much change would she get back? _____

(5) **Shade** in $^3/_4$ of this group of shapes.



(6) What **fraction** of each group of shapes is shaded? (Simplify your answer)

_____ _____

_____ _____

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

$\frac{1}{2}$ of $35 = _____ $\frac{1}{3}$ of $48 = _____

(8) **Find** each fraction of these decimal numbers.

$\frac{1}{5}$ of $27.50 = _____ $\frac{1}{4}$ of $16.80 = _____

(9) If $24 is shared between four people, how much does each person get? _____

(10) If $35.70 is shared between seven people, how much does each person get? _____

(11) **Read** each statement and **write** the information as a **fraction**. *Example:* 3 out of 4 is written as $^3/_4$

Abbey scored 17 out of 25 in a test. _____

It rained 25 days out of 30 days. _____

Marking Schedule (Circle **S**, **A** or **D**)
S = Shows strength (**All** 18 correct)
A = Achieved (14 to 17 correct)
D = Developing (less than 14 correct)

/18

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

562 _____ 987 _____ 435 _____

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

950 _____ 423 _____ 248 _____

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

4632 _____ 5147 _____ 6500 _____

(4) **Round** these numbers to the nearest **10**, **100** or **1000**, before working out an **estimated answer**.

495 + 713 _____ + _____ = _____

3609 - 489 _____ - _____ = _____

1075 × 19 _____ × _____ = _____

6105 ÷ 6 _____ ÷ _____ = _____

(5) **Order** of **operations**.

BEDMAS

8 × 7 + 25 = _____ 45 ÷ 5 − 7 = _____

83 − 9 × 8 = _____ 75 − 63 ÷ 7 = _____

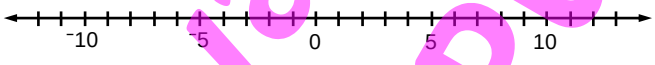
(6) **Calculate** the **new** temperature.

Starting temperature 5°C, **drops** 8°C. _____

Starting temperature $^{-}$4°C, **rises** 8°C. _____

Starting temperature $^{-}$3°C, **drops** 6°C. _____

(7) **Add** these positive and negative numbers



$^{-}$2 + 7 = _____ 4 + $^{-}$6 = _____

5 + $^{-}$8 = _____ $^{-}$7 + $^{-}$3 = _____

(8) What is the **place value** of the **BOLD** digit in each number and what does it mean?

Example: place value = $^{1}/_{10}$'s, $^{1}/_{100}$'s, 1's, 10's or 100's

	Place value	Number		Place value	Number
72.73			61.83		
93.12			74.69		

Marking Schedule (Circle **S**, **A** or **D**)
S = Shows strength (**All** 32 correct)
A = Achieved (26 to 31 correct)
D = Developing (less than 26 correct)

/32

(1) **Complete** each calculation to create **equivalent fractions**. *Example:* $^{1}/_{2} \times {}^{8}/_{8} = {}^{8}/_{16}$

$^{1}/_{4} \times {}^{6}/_{6}$ = _____ $^{1}/_{3} \times {}^{3}/_{3}$ = _____

$^{2}/_{3} \times {}^{2}/_{2}$ = _____ $^{3}/_{4} \times {}^{7}/_{7}$ = _____

$^{3}/_{5} \times {}^{8}/_{8}$ = _____ $^{7}/_{10} \times {}^{10}/_{10}$ = _____

(2) **Match** these **equivalent fractions**.

Example: $^{1}/_{2} = {}^{8}/_{16}$

$^{3}/_{12}$ = _____ $^{1}/_{5}$ = _____

$^{2}/_{3}$ = _____ $^{9}/_{12}$ = _____

$^{4}/_{10}$ = _____ $^{5}/_{6}$ = _____

Answers:
$^{3}/_{4}$ $^{1}/_{4}$ $^{4}/_{20}$ $^{8}/_{12}$ $^{10}/_{12}$ $^{2}/_{5}$

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

Example: $^{1}/_{2}$ = 0.5

$^{1}/_{4}$ = _____ $^{1}/_{2}$ = _____

$^{1}/_{3}$ = _____ $^{1}/_{10}$ = _____

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

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

Example: 0.5 = $^{1}/_{2}$

0.1 = _____ 0.5 = _____

0.2 = _____ 0.33$\dot{3}$ = _____

0.25 = _____ 0.75 = _____

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

Example: 50% = 0.5

25% = _____ 60% = _____

50% = _____ 75% = _____

$33\frac{1}{3}$% = _____ 85% = _____

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

Example: 0.5 = 50%

0.5 = _____ 0.6 = _____

0.85 = _____ 0.33$\dot{3}$ = _____

0.25 = _____ 0.75 = _____

Marking Schedule (Circle **S**, **A** or **D**)
S = Shows strength (**All** 36 correct)
A = Achieved (29 to 35 correct)
D = Developing (less than 29 correct)

/36

Notes:

B1

Daily Number Revision Numeracy Skills Assessment

A: Adding 3 digit numbers - no carrying

(1) 314 + 670 = _____
(2) 407 + 252 = _____
(3) 623 + 203 = _____
(4) 581 + 303 = _____
(5) 141 + 815 = _____
(6) 410 + 317 = _____
(7) 129 + 730 = _____
(8) 326 + 521 = _____
(9) 264 + 104 = _____
(10) 620 + 253 = _____

B: Adding 3 digit numbers - carrying

(1) 689 + 942 = _____
(2) 759 + 379 = _____
(3) 738 + 688 = _____
(4) 853 + 659 = _____
(5) 785 + 479 = _____
(6) 978 + 179 = _____
(7) 949 + 467 = _____
(8) 586 + 669 = _____
(9) 952 + 888 = _____
(10) 568 + 967 = _____

C: Subtracting 3 digit numbers - no renaming

(1) 758 - 257 = _____
(2) 376 - 275 = _____
(3) 592 - 491 = _____
(4) 862 - 430 = _____
(5) 754 - 512 = _____
(6) 691 - 271 = _____
(7) 784 - 313 = _____
(8) 947 - 203 = _____
(9) 983 - 603 = _____
(10) 569 - 102 = _____

D: Subtracting 3 digit numbers - renaming

(1) 318 - 129 = _____
(2) 921 - 439 = _____
(3) 404 - 156 = _____
(4) 813 - 679 = _____
(5) 652 - 498 = _____
(6) 931 - 576 = _____
(7) 773 - 585 = _____
(8) 826 - 268 = _____
(9) 514 - 337 = _____
(10) 602 - 325 = _____

E: Multiplying - mixed

(1) 4 × 2 = _____
(2) 8 × 5 = _____
(3) 10 × 3 = _____
(4) 8 × 4 = _____
(5) 2 × 6 = _____
(6) 5 × 7 = _____
(7) 8 × 8 = _____
(8) 3 × 9 = _____
(9) 7 × 2 = _____
(10) 9 × 5 = _____
(11) 0 × 3 = _____
(12) 10 × 4 = _____
(13) 8 × 6 = _____
(14) 3 × 7 = _____
(15) 7 × 8 = _____
(16) 1 × 9 = _____
(17) 5 × 2 = _____
(18) 3 × 5 = _____
(19) 4 × 3 = _____
(20) 2 × 4 = _____

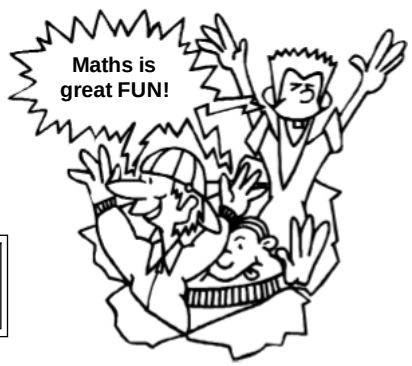
F: Dividing - mixed

(1) 30 ÷ 6 = _____
(2) 7 ÷ 7 = _____
(3) 24 ÷ 8 = _____
(4) 90 ÷ 9 = _____
(5) 4 ÷ 2 = _____
(6) 35 ÷ 5 = _____
(7) 6 ÷ 3 = _____
(8) 24 ÷ 4 = _____
(9) 42 ÷ 6 = _____
(10) 63 ÷ 7 = _____
(11) 8 ÷ 8 = _____
(12) 72 ÷ 9 = _____
(13) 18 ÷ 2 = _____
(14) 20 ÷ 5 = _____
(15) 18 ÷ 3 = _____
(16) 12 ÷ 4 = _____
(17) 60 ÷ 6 = _____
(18) 49 ÷ 7 = _____
(19) 32 ÷ 8 = _____
(20) 45 ÷ 9 = _____

Section	Summary of Scores
A	_____ / 10
B	_____ / 10
C	_____ / 10
D	_____ / 10
E	_____ / 20
F	_____ / 20
Total:	_____ / 80

Marking Schedule (Circle **S**, **A** or **D**)
S = Shows strength (all correct)
A = Achieved (64 to 79 correct)
D = Developing (less than 64 correct)

/80



B2 Number Assessment

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

zero point four five nine _____

twenty-seven point eight six three _____

(2) **Write** these decimal numbers as **number words**

43.765 _____

9.053 _____

(3) **Write** these decimals in order of **smallest** to **largest**.

2.57, 2.59, 2.54, 2.50, 2.53, 2.55, 2.58, 2.56

_____

(4) Prime numbers, multiples & factors

List the **prime numbers** between **9** and **20**. _____

List the first 5 **multiples** of **8**. _____

List the **factors** of **15**. _____

(5) **Calculate** the **squares** of these numbers.

8^2 _____ 10^2 _____ 6^2 _____

(6) **Calculate** the **square roots** of these numbers.

$\sqrt{81}$ _____ $\sqrt{25}$ _____ $\sqrt{121}$ _____

(7) **Adding** and **subtracting** decimals.

1.58 + 7.75 = _____ 8.24 - 6.42 = _____

84.96 + 38.28 = _____ 48.05 -23.47 = _____

(8) **Multiplying** and **dividing** decimals.

35.49 × 5.4 = _____

102.8 × 0. 32 = _____

$0.7\overline{)33.95}$ = _____

$0.09\overline{)2.403}$ = _____

(9) **Multiplying** and **dividing** by **10**, **100** or **1000**.

9.38 × 100 = _____ 67.2 ÷ 100 = _____

45.1 × 10 = _____ 3.09 ÷ 10 = _____

(10) **Multiplying** and **dividing** by **powers of 10**.

6.7 × 10^2 = _____ 9.2 ÷ 10^2 = _____

Marking Schedule (Circle **S**, **A** or **D**)
S = Shows strength (**All** 28 correct)
A = Achieved (22 to 27 correct)
D = Developing (less than 22 correct)
/28

B3 Number Assessment

(1) How much would 7 C.D.'s at $16.45 each cost? _____

(2) How much would 3 kilograms of meat at $12.95 per kilogram cost? _____

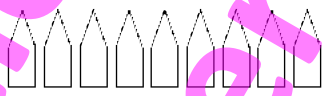
(3) If 8 exercise books cost $9.20, what is the cost of one exercise book? _____

(4) **Add** up Jan's shopping list / work out her change.

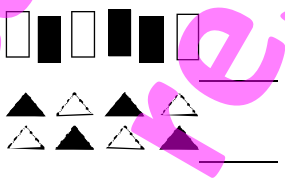
$19.90
$13.65
$9.65
$24.55
+ $7.80
_____

If Jan paid for her purchases with four $20.00 notes, how much change would she get back? _____

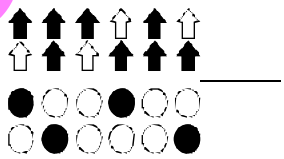
(5) **Shade** in $^2/_3$ of this group of shapes.



(6) What **fraction** of each group of shapes is shaded? (Simplify your answer)



_____



_____

_____

_____

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

$\frac{1}{4}$ of $48 = _____ $\frac{1}{2}$ of $35 = _____

(8) **Find** each fraction of these decimal numbers.

$\frac{1}{3}$ of $27.90 = _____ $\frac{1}{5}$ of $31.50 = _____

(9) If $24 is shared between eight people, how much does each person get? _____

(10) If $67.50 is shared between five people, how much does each person get? _____

(11) **Read** each statement and **write** the information as a **fraction**. *Example:* 3 out of 4 is written as $^3/_4$

Abbey scored 19 out of 25 in a test. _____

It rained 20 days out of 30 days. _____

Marking Schedule (Circle **S**, **A** or **D**)
S = Shows strength (**All** 18 correct)
A = Achieved (14 to 17 correct)
D = Developing (less than 14 correct)
/18

B4

Number Assessment

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

631 _____ 145 _____ 936 _____

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

459 _____ 937 _____ 750 _____

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

3782 _____ 2500 _____ 5269 _____

(4) **Round** these numbers to the nearest **10**, **100** or **1000**, before working out an **estimated answer**.

295 + 648 _____ + _____ = _____

9134 - 879 _____ - _____ = _____

4028 × 21 _____ × _____ = _____

6879 ÷ 7 _____ ÷ _____ = _____

(5) **Order** of **operations**.

9 × 7 + 34 = _____ 60 ÷ 5 - 9 = _____

92 - 8 × 8 = _____ 64 - 35 ÷ 7 = _____

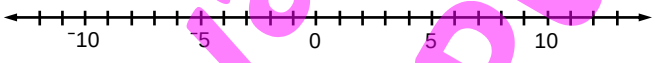
(6) **Calculate** the **new** temperature.

Starting temperature 4°C, **drops** 7°C. _____

Starting temperature $^{-}$5°C, **rises** 9°C. _____

Starting temperature $^{-}$2°C, **drops** 5°C. _____

(7) **Add** these positive and negative numbers



$^{-}$1 + 9 = _____ 5 + $^{-}$8 = _____

4 + $^{-}$7 = _____ $^{-}$6 + $^{-}$4 = _____

(8) What is the **place value** of the **BOLD** digit in each number and what does it mean?

Example: place value = $^{1}/_{10}$'s, $^{1}/_{100}$'s, 1's, 10's or 100's

	Place value	Number		Place value	Number
72.94			31.84		
85.70			84.74		

Marking Schedule (Circle **S**, **A** or **D**)
S = Shows strength (**All** 32 correct)
A = Achieved (26 to 31 correct)
D = Developing (less than 26 correct)

/32

B5

Number Assessment

(1) **Complete** each calculation to create **equivalent fractions**. *Example:* $^{1}/_{2} \times {}^{8}/_{8} = {}^{8}/_{16}$

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

$^{3}/_{4} \times {}^{3}/_{3} =$ _____ $^{9}/_{10} \times {}^{6}/_{6} =$ _____

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

(2) **Match** these **equivalent fractions**.

Example: $^{1}/_{2} = {}^{8}/_{16}$

$^{3}/_{4} =$ _____ $^{4}/_{20} =$ _____

$^{8}/_{12} =$ _____ $^{1}/_{4} =$ _____

$^{2}/_{5} =$ _____ $^{10}/_{12} =$ _____

Answers:
$^{3}/_{12}$ $^{2}/_{3}$ $^{4}/_{10}$ $^{1}/_{5}$ $^{9}/_{12}$ $^{5}/_{6}$

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

Example: $^{1}/_{2} = 0.5$

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

$^{7}/_{10} =$ _____ $^{1}/_{4} =$ _____

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

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

Example: $0.5 = {}^{1}/_{2}$

0.25 = _____ 0.75 = _____

0.5 = _____ 0.2 = _____

0.66̇ = _____ 0.7 = _____

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

Example: 50% = 0.5

25% = _____ 50% = _____

5% = _____ 40% = _____

95% = _____ $66\frac{2}{3}\%$ = _____

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

Example: 0.5 = 50%

0.05 = _____ 0.95 = _____

0.66̇ = _____ 0.5 = _____

0.25 = _____ 0.4 = _____

Marking Schedule (Circle **S**, **A** or **D**)
S = Shows strength (**All** 36 correct)
A = Achieved (29 to 35 correct)
D = Developing (less than 29 correct)

/36