

Peter Maher

# Building a strong foundation in MENTAL MATHS

For review purposes only

Peter Maher

3

2

5

7

2

4



10



**THIS WAY**



# Scope and sequence

## Number

Unit	Topic	Page
1	<b>Addition:</b> Bonding to 10	8
2	<b>Addition:</b> Adding on 10	10
3	<b>Addition:</b> Adding on 9 or 11	12
4	<b>Subtraction:</b> Subtracting from 10	14
5	<b>Subtraction:</b> Subtracting 10, 9 or 11	16
6	<b>Doubling</b> and near doubling	18
7	<b>Halving</b> and near halving	20
8	<b>Multiplication:</b> The 2 times table	22
9	<b>Multiplication:</b> The 3 times table	24
10	<b>Multiplication:</b> The 4 times table	26
11	<b>Multiplication:</b> The 5 times and 10 times tables	28
12	<b>Division:</b> Dividing by 2	30
13	<b>Division:</b> Dividing by 3	32
14	<b>Division:</b> Dividing by 4	34
15	<b>Division:</b> Dividing by 5 and 10	36
16	<b>Fractions:</b> Halves, quarters and parts of an amount	38
17	<b>Place value:</b> Digit recognition	40
18	<b>Rounding off:</b> Nearest 10 and 100	42
19	<b>Sequences:</b> Finding missing terms	44
20	<b>Number strings</b>	46

## Measurement

21	<b>Length:</b> Units and conversions	48
22	<b>Perimeter:</b> Concept and missing sides	50
23	<b>Mass:</b> Units and conversions	52
24	<b>Capacity/volume:</b> Units and conversions	54
25	<b>Time:</b> Positions of the hands	56
26	<b>Time:</b> Digital and analogue conversions	58
27	<b>Time:</b> Unit equivalences	60
28	<b>Money:</b> Notes and coins	62
29	<b>Money:</b> Amounts, and adding and giving change	64

## Space

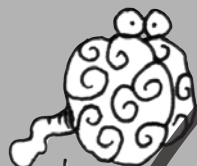
30	<b>2D and 3D:</b> Polygon and polyhedra properties	66
----	--	----

## Chance and data

31	<b>Chance:</b> Concepts of likelihood	68
----	---------------------------------------	----

## Revision

32	<b>Revision:</b> All sorts	70
----	----------------------------	----



BOING



# Mighty Mentals

Book A

Peter Maher



Name \_\_\_\_\_

**For review purposes only**

Class \_\_\_\_\_

## Contents

Scope and Sequence.....	Inside front cover
Note to Teachers and Parents .....	2
Handy Maths Facts .....	4
How Well Am I Doing? .....	6
Units 1-32 .....	8-71
Glossary .....	72
Answers section in middle of book	





# Note to teachers and parents

## Developing mental arithmetic skills

Automatic response—the ability to quickly recall basic mathematical facts, or to apply a known fact to a slightly modified situation or application—is an essential prerequisite for success in mathematics.

The development of modern technology and its applicability to the classroom in the form of the hand-held calculator has not diminished the significance of the role that mental arithmetic should play in schools. On the contrary, the advent of modern technology has increased the need for accurate mental arithmetic skill development in children. Without relatively accurate estimation prior to calculation, merely accepting at face value a solution on a screen can be fraught with danger. Inadvertently hitting the wrong buttons on a calculator is a commonly occurring fact of life. The result on the screen should never be blindly accepted. When we consider the fact that the great majority of the calculations secondary school students complete are done on the calculator, the validity of this point can be readily perceived.

By the end of primary school, a child should be in the habit of estimating and rounding off prior to using a calculator for computational purposes.

Appropriate estimation is reliant upon a sound knowledge of basic number facts, which should have been developed consistently throughout the primary years.

The better a student's abilities with mental arithmetic, the less time he or she will have to devote to looking up answers on a screen, in a book or on a chart. This point is demonstrated graphically with the game of 'beat the calculator'. Line up your students in pairs and tell them that some maths questions are going to be asked of the children who progressively come to the head of the line. Offer a calculator

to one of the two students. Both will want it but only allow one to prevail. The other student will complain about how unfair the game is until the rules are made clear. The child with the calculator must press the appropriate buttons and display the correct answer. Ask the pairs of students questions they should be able to recall relatively quickly, such as  $2 \times 5$  or  $7 + 4$ . Now watch the child with the calculator complain that the game is unfair because the calculator is an encumbrance. Slip in the question  $9 \times 35$  to see who is first with the correct answer. If the student using mental arithmetic is highly competent,  $350 - 35 = 315$  (10 lots of 35 minus one lot of 35) might still beat the calculator's  $9 \times 35 = 315$ .

It is also the case that the faster a student is with his or her basic number facts, the greater is the likelihood of structural computational success. Algorithms, such as long multiplication and division, contain numerous steps and stages. Students with inadequate mental arithmetic skills often take so long to recall a basic number fact that they forget the stage of the algorithm that they are progressing through. For these students the necessary foundation of times tables knowledge is inadequate—it is like trying to build on a foundation of sand. Without the necessary prerequisites of number facts competence, the algorithmic 'house' will tumble down.

It is invariably the case that the broader a student's body of mathematical knowledge, the more he or she will achieve in the subject and the more enjoyment that student will derive from the discipline. The message is clear: regularly practise automatic response games and activities, chants and rounds and all will benefit. Try to teach these number facts in as fun and meaningful a way as possible. Incorporate concrete materials and incentives into your number facts lessons.





Above all, teach for understanding. When teaching the 3 times table, show that the digits in the multiples will always sum to 3, 6 or 9. Show that the answers to the 9 times table always sum to 9. Show that adding on 8 is no harder than adding on 10—just jump back 2. Explain that the metric prefix 'kilo' stands for the number 1000, therefore there have to be 1000 grams in a kilogram and 1000 metres in a kilometre and, heaven forbid, 1000 tons of TNT in a kiloton bomb.

The patterns that make number-facts recall easy are out there and easy enough to find. Make the effort to demonstrate them at every possible opportunity. This book and the other books in this series will show you how.

## How to use this book

The challenge of acquiring appropriate automatic response capabilities demands a structured and planned approach in schools. Mental arithmetic skills should be developed in a systematic manner over a period of years. The program should encompass the full range of the mathematics curriculum, covering measurement and space facts, data and chance questions as well as number problems.

The four books in this series assist with the development of mental arithmetic skills in a systematic and logical manner. Each book in the series contains 32 units of work. Each unit contains six sets of questions, which can represent one set per school day with one left over for homework. Alternatively, one day per week could be devoted to the completion of the six sets.

Each exercise in the books focuses on a specific concept, such as multiplying by 10, or the number of days in each month. The exercises have been set out in a logical sequence according to topic, for example bonding to 10 and adding on 10 should be taught and

practised prior to adding on 9 or 11; digit recognition in place value should be completed prior to rounding off, and so on. However, the order in which the exercises are completed can be varied to suit the needs of your students. The exercises are at their most useful when linked to the topic under review in the classroom at the time.

The **Scope and Sequence Chart** on the inside front cover of this book will assist you to plan for the use of this book and to make it as relevant as possible to your students' individual learning capabilities.

At the top of each unit of work there is a **tip** for the students, to help them work through the exercises in that unit. At the bottom of each unit, you will find the relevant state **outcomes**.

The **Handy Maths Facts** on pages 4–5 are included as useful reference material for students.

**How Well I Am Doing?** on pages 6–7 affords the students the opportunity to record their scores on the unit exercises and to rate their own progress and performance.

A list of **answers** is found in the middle of each book and can be removed and stored if deemed appropriate.

## The terms used in this book

The questions presented in this book utilise a wide variety of mathematical terms that are designed to reflect the structure of the discipline and to develop a student's mathematical vocabulary. Knowing, for example, that the terms 'add', 'sum', 'total' and 'altogether' all refer to the process of addition will have obvious benefits when a student has to tackle an addition problem set in context, or when problem solving.

A **Glossary** is provided on page 72 as a ready reference.

# Handy ★ Maths Facts

+

or

-

	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12	13
2	2	3	4	5	6	7	8	9	10	11	12	13	14
3	3	4	5	6	7	8	9	10	11	12	13	14	15
4	4	5	6	7	8	9	10	11	12	13	14	15	16
5	5	6	7	8	9	10	11	12	13	14	15	16	17
6	6	7	8	9	10	11	12	13	14	15	16	17	18
7	7	8	9	10	11	12	13	14	15	16	17	18	19
8	8	9	10	11	12	13	14	15	16	17	18	19	20
9	9	10	11	12	13	14	15	16	17	18	19	20	21
10	10	11	12	13	14	15	16	17	18	19	20	21	22
11	11	12	13	14	15	16	17	18	19	20	21	22	23
12	12	13	14	15	16	17	18	19	20	21	22	23	24

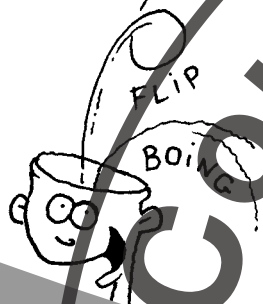
For review purposes only

x

or

÷

	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10	11	12
2	0	2	4	6	8	10	12	14	16	18	20	22	24
3	0	3	6	9	12	15	18	21	24	27	30	33	36
4	0	4	8	12	16	20	24	28	32	36	40	44	48
5	0	5	10	15	20	25	30	35	40	45	50	55	60
6	0	6	12	18	24	30	36	42	48	54	60	66	72
7	0	7	14	21	28	35	42	49	56	63	70	77	84
8	0	8	16	24	32	40	48	56	64	72	80	88	96
9	0	9	18	27	36	45	54	63	72	81	90	99	108
10	0	10	20	30	40	50	60	70	80	90	100	110	120
11	0	11	22	33	44	55	66	77	88	99	110	121	132
12	0	12	24	36	48	60	72	84	96	108	120	132	144



## Length

$$10 \text{ mm} = 1 \text{ cm}$$

$$1000 \text{ mm} = 1 \text{ m}$$

$$100 \text{ cm} = 1 \text{ m}$$

$$1000 \text{ m} = 1 \text{ km}$$

mm millimetre(s)

cm centimetre(s)

m metre(s)

km kilometre(s)

## Mass

$$1000 \text{ g} = 1 \text{ kg}$$

$$1000 \text{ kg} = 1 \text{ t}$$

g gram(s)

kg kilogram(s)

t tonne(s)

## Capacity

$$1000 \text{ mL} = 1 \text{ L}$$

$$1000 \text{ cm}^3 = 1 \text{ L}$$

1 cm<sup>3</sup> (water) weighs 1 g

mL millilitre(s)

L litre(s)

g gram(s)

cm<sup>3</sup> cubic centimetres

## Time

$$60 \text{ seconds} = 1 \text{ minute}$$

$$60 \text{ minutes} = 1 \text{ hour}$$

$$24 \text{ hours} = 1 \text{ day}$$

$$7 \text{ days} = 1 \text{ week}$$

$$365 \text{ days} = 1 \text{ year}$$

$$366 \text{ days} = 1 \text{ leap year}$$

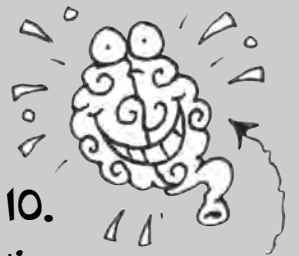
$$12 \text{ months} = 1 \text{ year}$$

$$10 \text{ years} = 1 \text{ decade}$$

$$100 \text{ years} = 1 \text{ century}$$



# How well am I doing?



SUPER  
BRAIN

After you complete each set of work, fill in your score out of 10.

At the end of the six sets, rate yourself in the following way:

**G** = Can do better; **I** Improving; **E** = Excellent; or **S** = Superstar.

Unit	Topic	Set A	Set B	Set C	Set D	Set E	Set F	My Rating
1	Addition: Bonding to 10							
2	Addition: Adding on 10							
3	Addition: Adding on 9 or 11							
4	Subtraction: Subtracting from 10							
5	Subtraction: Subtracting 10, 9 or 11							
6	Doubling and near doubling							
7	Halving and near halving							
8	Multiplication: 2 times table							
9	Multiplication: 3 times table							
10	Multiplication: 4 times table							
11	Multiplication: 5 and 10 times tables							
12	Division: Dividing by 2							
13	Division: Dividing by 3							
14	Division: Dividing by 4							



Unit	Topic	Set A	Set B	Set C	Set D	Set E	Set F	My Rating
15	Division: Dividing by 5 and 10							
16	Fractions: Halves, quarters and parts of an amount							
17	Place value: Digit recognition							
18	Rounding off: Nearest 10 and 100							
19	Sequences: Finding missing terms							
20	Number strings							
21	Length: Units and conversions							
22	Perimeter: Concept and missing sides							
23	Mass: Units and conversions							
24	Capacity/volume: Units and conversions							
25	Time: Positions of the hands							
26	Time: Digital and analogue conversions							
27	Time: Unit equivalences							
28	Money: Notes and coins							
29	Money: Amounts, and adding and giving change							
30	2D and 3D: Polygon and polyhedra properties							
31	Chance: Concepts of likelihood							
32	Revision: All sorts							

# Unit 1 Addition: Bonding to 10

Our number

system is based on the number 10 because we have 10 fingers. See if you can bond to 10 quickly!

Set A

- 1  $10 = 5 + \square$
- 2  $10 = 9 + \square$
- 3  $10 = 2 + \square$
- 4  $10 = 6 + \square$
- 5  $10 = 1 + \square$
- 6  $10 = 3 + \square$
- 7  $10 = 8 + \square$
- 8  $10 = 7 + \square$
- 9  $10 = 4 + \square$
- 10  $10 = 0 + \square$

Set B

- 1  $10 = 2 + 3 + \square$
- 2  $10 = 5 + 1 + \square$
- 3  $10 = 2 + 2 + \square$
- 4  $10 = 3 + 3 + \square$
- 5  $10 = 3 + 6 + \square$
- 6  $10 = 1 + 1 + \square$
- 7  $10 = 4 + 2 + \square$
- 8  $10 = 5 + 4 + \square$
- 9  $10 = 9 + 0 + \square$
- 10  $10 = 7 + 1 + \square$

For review purposes only

Set C

- 1 Find the sum of 6 and 4 \_\_\_\_
- 2 Find the sum of 8 and 2 \_\_\_\_
- 3 Add 3 to the total of 7 and 3 \_\_\_\_
- 4 What is 9 and 1 and 4 altogether? \_\_\_\_
- 5 What is 2 more than the sum of 8 and 2? \_\_\_\_
- 6 Add 7 to 4 and 6 \_\_\_\_
- 7 Add 8 to the sum of 9 and 1 \_\_\_\_
- 8 What is 5 and 5 and 6 altogether? \_\_\_\_
- 9 What is 6 greater than 8 plus 2? \_\_\_\_
- 10 Add 9 to the sum of 7 and 3 \_\_\_\_

## Set C

- 1  $10 = 2 + 2 + 2 + \square$
- 2  $10 = 3 + 3 + 2 + \square$
- 3  $10 = 1 + 1 + 2 + \square$
- 4  $10 = 5 + 1 + 2 + \square$
- 5  $10 = 4 + 4 + 1 + \square$
- 6  $10 = 3 + 1 + 2 + \square$
- 7  $10 = 2 + 3 + 4 + \square$
- 8  $10 = 7 + 1 + 1 + \square$
- 9  $10 = 0 + 0 + 5 + \square$
- 10  $10 = 4 + 0 + 2 + \square$

## Set D

What number  
is needed to make 10?

- |    |    |                      |
|----|----|----------------------|
| 1  | 4  | <input type="text"/> |
| 2  | 8  | <input type="text"/> |
| 3  | 5  | <input type="text"/> |
| 4  | 1  | <input type="text"/> |
| 5  | 7  | <input type="text"/> |
| 6  | 0  | <input type="text"/> |
| 7  | 2  | <input type="text"/> |
| 8  | 9  | <input type="text"/> |
| 9  | 10 | <input type="text"/> |
| 10 | 3  | <input type="text"/> |



## Set F

- 1 I need \$10 and have saved \$4. I still need to save \$\_\_\_\_\_.
- 2 There are 10 stickers in a set. I have 8 and need \_\_\_\_\_ more.
- 3 We need 10 goals to win the game and have kicked 3. We need \_\_\_\_\_ more goals.
- 4 I made \$10 with a \$5 bill, a \$2 coin and \_\_\_\_\_ dollar coins.
- 5 I am missing 10 socks. I found 6. I still need to find \_\_\_\_\_ socks.
- 6 I need to do 10 sums for homework. I have completed 5. \_\_\_\_\_ more sums to go!
- 7 I must travel a journey of 10 stations on the train. I am at the 8th station. I have \_\_\_\_\_ stations to go.
- 8 I must clean 10 pairs of shoes. I have cleaned 8 pairs. \_\_\_\_\_ pairs to go!
- 9 I need 10 metres of fabric but only have 7 metres. I am short by \_\_\_\_\_ metres of fabric.
- 10 This is the last of these 10 questions. I have \_\_\_\_\_ left to do!

# Unit 2 Addition: Adding on 10

## Set A

Adding on 10 to a number is as simple as moving the tens place up 1. See how well you can do this with the following questions.

- 1  $3 + 10 =$
- 2  $5 + 10 =$
- 3  $7 + 10 =$
- 4  $0 + 10 =$
- 5  $4 + 10 =$
- 6  $6 + 10 =$
- 7  $1 + 10 =$
- 8  $9 + 10 =$
- 9  $2 + 10 =$
- 10  $8 + 10 =$

## Set B

- 1  $10 + 4 =$
- 2  $10 + 8 =$
- 3  $10 + 2 =$
- 4  $10 + 5 =$
- 5  $10 + 7 =$
- 6  $10 + 1 =$
- 7  $10 + 3 =$
- 8  $10 + 6 =$
- 9  $10 + 9 =$
- 10  $10 + 0 =$

For review purposes only

## Set E

- 1 Find the sum of 33 and 10 \_\_\_\_
- 2 Add 87 to 10 \_\_\_\_
- 3 What is the total when 10 is added to 55? \_\_\_\_
- 4 What is 43 and 10 altogether? \_\_\_\_
- 5 What is the sum of 10 and 17? \_\_\_\_
- 6 Add 10 to 26 \_\_\_\_
- 7 Find the total of 68 and 10 \_\_\_\_
- 8 What is 10 more than the sum of 3 and 8? \_\_\_\_
- 9 Is the sum of 36 and 10 more than 45? \_\_\_\_
- 10 Is the total of 10 and 12 and 10 equal to 120? \_\_\_\_

BOING



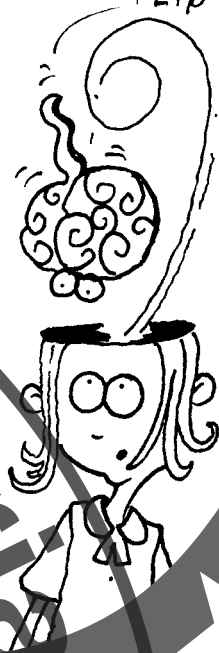
Set C

- 1  $5 + 10 + 2 =$
- 2  $4 + 10 + 3 =$
- 3  $7 + 10 + 1 =$
- 4  $2 + 10 + 2 =$
- 5  $6 + 10 + 1 =$
- 6  $4 + 10 + 4 =$
- 7  $1 + 10 + 8 =$
- 8  $0 + 10 + 3 =$
- 9  $2 + 2 + 2 + 10 =$
- 10  $3 + 1 + 3 + 10 =$

Set D

- 1  $21 + 10 =$
- 2  $43 + 10 =$
- 3  $38 + 10 =$
- 4  $70 + 10 =$
- 5  $85 + 10 =$
- 6  $56 + 10 =$
- 7  $49 + 10 =$
- 8  $45 + 10 =$
- 9  $17 + 10 =$
- 10  $94 + 10 =$

Flip



Set F

- 1 I had 48 stickers and then was given 10 more. I now have \_\_\_\_ stickers.
- 2 Jack has 10 more stickers than the answer above. How many stickers does Jack have? \_\_\_\_
- 3 Sara has shot 87 netball goals. If she scores 10 more goals in her next game, her total goals will be \_\_\_\_ goals.
- 4 I saved \$10 and was given \$23. I then had \$\_\_\_\_.
- 5 Matthew scored 10 more runs than me. I scored 83 runs. He scored \_\_\_\_ runs.
- 6 I own 25 books. Elisa has 10 more books than me. She owns \_\_\_\_ books.
- 7 In the morning it was 10 degrees. Then it rose 11 degrees. The temperature was now \_\_\_\_ degrees.
- 8 I weigh 32 kilograms. My big sister weighs 10 kilograms more than me. She weighs \_\_\_\_ kilograms.
- 9 My team scored 29 points and lost by 10. Our opponents scored \_\_\_\_ points.
- 10 The pressure in my bike's rear tyre was 43 psi. My front tyre was 10 psi more than this. It's pressure was \_\_\_\_ psi.

# Unit 3 Addition: Adding on 9 or 11

Adding on 9 or 11

is very similar to adding on 10. All you need to do is either add on 10 and jump back 1, or add on 10 and jump forward 1.

## Set A

1  $7 + 9 =$

2  $5 + 9 =$

3  $1 + 9 =$

4  $6 + 9 =$

5  $3 + 9 =$

6  $0 + 9 =$

7  $2 + 9 =$

8  $8 + 9 =$

9  $4 + 9 =$

10  $9 + 9 =$

## Set B

1  $3 + 11 =$

2  $8 + 11 =$

3  $2 + 11 =$

4  $7 + 11 =$

5  $9 + 11 =$

6  $1 + 11 =$

7  $10 + 11 =$

8  $5 + 11 =$

9  $0 + 11 =$

10  $4 + 11 =$

For review purposes only

## Set E

1 Add 9 on to 7 \_\_\_\_

2 Add 11 on to 55 \_\_\_\_

3 What is the sum of 34 and 9? \_\_\_\_

4 What is the sum of 72 and 11? \_\_\_\_

5 What is 49 and 9 altogether? \_\_\_\_

6 What is 48 and 11 altogether? \_\_\_\_

7 Find the total of 9 and 32 \_\_\_\_

8 Find the total of 83 and 11 \_\_\_\_

9 Is the sum of 75 and 9 more than 82? \_\_\_\_

10 Is the sum of 98 and 11 equal to 107? \_\_\_\_

**Set C**

- 1  $23 + 9 =$
- 2  $84 + 9 =$
- 3  $48 + 9 =$
- 4  $17 + 9 =$
- 5  $94 + 9 =$
- 6  $33 + 9 =$
- 7  $75 + 9 =$
- 8  $40 + 9 =$
- 9  $68 + 9 =$
- 10  $57 + 9 =$

**Set D**

- 1  $16 + 11 =$
- 2  $83 + 11 =$
- 3  $52 + 11 =$
- 4  $92 + 11 =$
- 5  $70 + 11 =$
- 6  $29 + 11 =$
- 7  $48 + 11 =$
- 8  $66 + 11 =$
- 9  $37 + 11 =$
- 10  $9 + 11 =$

DA  
DAH!**Set F**

- 1 In the morning it was 9 degrees. It rose 9 more degrees in the afternoon. It was then \_\_\_\_ degrees.
- 2 It was 23 degrees in Sydney. It was 11 degrees hotter in Darwin. In Darwin it was \_\_\_\_ degrees.
- 3 My team scored 54 points but lost by 9 points. The winning team scored \_\_\_\_ points.
- 4 At half time in the netball the Swifts were 37 goals. They scored 11 goals in the third quarter. At three-quarter time they had scored \_\_\_\_ goals.
- 5 I owned 64 stamps and was given 9 more for my birthday. I now have \_\_\_\_ stamps.
- 6 My sister owns 11 more stamps than this total. How many does she own? \_\_\_\_
- 7 On Monday I saw 22 red cars on the way to school. I saw 9 more than this on Tuesday. On Tuesday I saw \_\_\_\_ red cars.
- 8 I have ridden 71 kilometres on my bike. My brother has ridden 11 kilometres more than me. He has ridden \_\_\_\_ kilometres on his bike.
- 9 I am 8 years old. My sister is 9 years older than me. She is \_\_\_\_ years old.
- 10 I live at 49 Cherry Street. My friend Jake lives in the same street and has a house number 11 bigger than mine. Jake lives at \_\_\_\_ Cherry Street.

## Subtraction: Subtracting from 10

## Set A

If you can bond to 10, taking away from 10 will be very easy. Just remember that subtraction is just the opposite to addition.

- 1  $10 - 4 =$
- 2  $10 - 9 =$
- 3  $10 - 7 =$
- 4  $10 - 3 =$
- 5  $10 - 1 =$
- 6  $10 - 8 =$
- 7  $10 - 6 =$
- 8  $10 - 0 =$
- 9  $10 - 5 =$
- 10  $10 - 2 =$

How many more do you need to take away from 10 to reach 0?

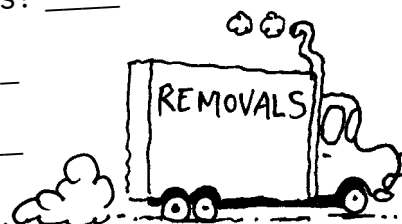
## Set B

- 1 4
- 2 7
- 3 1
- 4 5
- 5 0
- 6 3
- 7 6
- 8 8
- 9 2
- 10 9

For review purposes only

## Set E

- 1 How many times can you take away 5 from 10? \_\_\_\_
- 2 How many times can 2 be taken away from 10? \_\_\_\_
- 3 How many times can you take away 1 from 10? \_\_\_\_
- 4 What is left over if you take 3, then 5 away from 10? \_\_\_\_
- 5 What is left over after taking away 3 twice, from 10? \_\_\_\_
- 6 Can you take 4 away from 10, 3 times? \_\_\_\_
- 7 Remove 7 from 10 and add on 2 \_\_\_\_
- 8 Remove 5 from 10 and add on 5 \_\_\_\_
- 9 Remove 2 from 10, 4 times \_\_\_\_
- 10 Remove 6 and then 2 and then 1 from 10 \_\_\_\_





## Set C

- 1  $10 - 2 - 3 = \square$
- 2  $10 - 6 - 1 = \square$
- 3  $10 - 0 - 0 - 9 = \square$
- 4  $10 - 7 - 1 = \square$
- 5  $10 - 5 - 4 = \square$
- 6  $10 - 3 - 3 - 3 = \square$
- 7  $10 - 5 - 3 = \square$
- 8  $10 - 1 - 1 - 1 = \square$
- 9  $10 - 8 - 1 = \square$
- 10  $10 - 1 - 1 - 2 - 3 = \square$

## Set D

- 1 Subtract 5 from 10
- 2 Subtract 8 from 10
- 3 Take 2 away from 10
- 4 Take 9 away from 10
- 5 Take 7 away from 10
- 6 What is the difference between 10 and 2?
- 7 What is the difference between 10 and 0?
- 8 Subtract 4 and then 3 away from 10
- 9 Take 3 away twice from 10
- 10 Is the difference between 4 and 10 more than 5?



## Set F

- 1 I had 10 coins and spent 4 of them. I had \_\_\_\_ coins left.
- 2 It was 10 degrees and then fell 7 degrees. It was then \_\_\_\_ degrees.
- 3 I put down 8 fingers. I had \_\_\_\_ fingers left standing up.
- 4 I can't find 3 of my 10 socks. I can only find \_\_\_\_ socks.
- 5 My team scored 10 goals and I scored 2 of them. The rest of the team scored \_\_\_\_ goals between them.
- 6 I had to rule a 10 centimetre line, but my line was 3 centimetres short. My line was \_\_\_\_ centimetres long.
- 7 My birthday is on 10 May. Today is 8 May. I must wait \_\_\_\_ more days.
- 8 I want to lose 10 kilograms. I have already lost 7 kilograms. I must still lose \_\_\_\_ more kilograms.
- 9 Of the 10 shirts I own, 4 are too small. Only \_\_\_\_ fit me.
- 10 6 of my 10 video games are car racing games. \_\_\_\_ are not car racing games.

# Unit 5

## Subtraction: Subtracting 10, 9 or 11

When 10 is taken away from a number, like when we add on 10, we simply need to change the tens place—the units are not affected. Taking away 9 or 11 is as easy as taking away 10 and then either adding on 1 or taking 1 more away.

### Set A

- 1  $15 - 10 =$
- 2  $23 - 10 =$
- 3  $45 - 10 =$
- 4  $82 - 10 =$
- 5  $98 - 10 =$
- 6  $37 - 10 =$
- 7  $48 - 10 =$
- 8  $90 - 10 =$
- 9  $21 - 10 =$
- 10  $74 - 10 =$

### Set B

- 1  $54 - 9 =$
- 2  $74 - 9 =$
- 3  $12 - 9 =$
- 4  $39 - 9 =$
- 5  $78 - 9 =$
- 6  $51 - 9 =$
- 7  $47 - 9 =$
- 8  $38 - 9 =$
- 9  $17 - 9 =$
- 10  $80 - 9 =$

For review purposes only

### Set E

- 1 What is the difference between 38 and 10? \_\_\_\_
- 2 What is the difference between 97 and 9? \_\_\_\_
- 3 What is the difference between 73 and 11? \_\_\_\_
- 4 Take 9 away from 30 \_\_\_\_
- 5 Take 11 away from 49 \_\_\_\_
- 6 Take 10 away from 22 \_\_\_\_
- 7 Reduce 54 by 11 \_\_\_\_
- 8 Reduce 92 by 9 \_\_\_\_
- 9 Reduce 64 by 10 \_\_\_\_
- 10 Subtract 10 and then 11, from 99 \_\_\_\_

GREASY TENS  
TAKE AWAY

DRIVE THROUGH

**Set C**

- 1  $32 - 11 = \square$
- 2  $74 - 11 = \square$
- 3  $59 - 11 = \square$
- 4  $20 - 11 = \square$
- 5  $27 - 11 = \square$
- 6  $84 - 11 = \square$
- 7  $80 - 11 = \square$
- 8  $28 - 11 = \square$
- 9  $73 - 11 = \square$
- 10  $90 - 11 = \square$

**Set D**

- 1  $53 - 10 = \square$
- 2  $86 - 9 = \square$
- 3  $27 - 11 = \square$
- 4  $93 - 9 = \square$
- 5  $38 - 9 = \square$
- 6  $72 - 10 = \square$
- 7  $45 - 11 = \square$
- 8  $32 - 10 = \square$
- 9  $31 - 11 = \square$
- 10  $40 - 9 = \square$

**Set F**

- 1 James ran 42 kilometres in the marathon. Stewart ran 11 kilometres less than James. Stewart ran \_\_\_\_ kilometres.
- 2 I can run 100 metres in 19 seconds. The world record is about 9 seconds faster than this. The world record is about \_\_\_\_ seconds.
- 3 I live 13 train stations from the city. I have passed 10 stations. \_\_\_\_ stations to go.
- 4 Claire wants to buy a new toy horse, which costs \$34. She still needs to save another \$11. Claire has saved \$\_\_\_\_.
- 5 The Stingrays scored 35 goals and beat us by 9 goals. We scored \_\_\_\_ goals.
- 6 The Bullets scored 27 points and won by a margin of 10. Their opposition scored \_\_\_\_ points.
- 7 The margin between 2 cricket teams was 11 runs. The winners scored 98 runs. The beaten team scored \_\_\_\_ runs.
- 8 I need a ribbon that is 84 centimetres long, but the one I have is 10 centimetres too short. The ribbon I have is \_\_\_\_ centimetres long.
- 9 The bus I catch is due at 10:54. It is now 10:43. It is due in \_\_\_\_ minutes.
- 10 I own 34 stickers. Sam owns 43 stickers. Sam owns \_\_\_\_ more stickers than me.

# Unit 6 Doubling and near doubling

## Set A

Knowing how to add a number onto itself (doubling) is a very useful skill and helps when adding up.

If you know the 2 times table, you can double numbers.

Near doubling just needs a little extra step.

- 1  $3 + 3 =$
- 2  $8 + 8 =$
- 3  $2 + 2 =$
- 4  $9 + 9 =$
- 5  $0 + 0 =$
- 6  $7 + 7 =$
- 7  $1 + 1 =$
- 8  $5 + 5 =$
- 9  $6 + 6 =$
- 10  $4 + 4 =$

## Set B

- 1  $5 + 4 =$
- 2  $7 + 6 =$
- 3  $8 + 7 =$
- 4  $2 + 1 =$
- 5  $4 + 3 =$
- 6  $6 + 5 =$
- 7  $1 + 0 =$
- 8  $10 + 9 =$
- 9  $9 + 8 =$
- 10  $3 + 2 =$

For review purposes only

## Set E

- 1 Double 5 and add on 3 \_\_\_\_
- 2 Double 3 and double it again \_\_\_\_
- 3 Double 8 and take away 3 \_\_\_\_
- 4 Take 5. Double it and then add on 8 \_\_\_\_
- 5 Reduce 10 by 3 doubled \_\_\_\_
- 6 Which number, when doubled and doubled again, equals 12? \_\_\_\_
- 7 Take 10 away from 6 doubled \_\_\_\_
- 8 Double 4. Add on 3. Double this \_\_\_\_
- 9 What is the difference between 4 doubled and 6 doubled? \_\_\_\_
- 10 Reduce 5 doubled by 2 doubled \_\_\_\_





### Set C

- 1  $5 + 6 =$
- 2  $2 + 3 =$
- 3  $10 + 11 =$
- 4  $4 + 5 =$
- 5  $7 + 8 =$
- 6  $9 + 10 =$
- 7  $6 + 7 =$
- 8  $3 + 4 =$
- 9  $8 + 9 =$
- 10  $1 + 2 =$

### Set D

- 1 Double 7
- 2 Which number, when doubled, equals 18?
- 3 Double 1
- 4 Which number, when doubled, equals 8?
- 5 Double 8
- 6 Which number, when doubled, equals 6?
- 7 Double 6
- 8 Which number, when doubled, equals 10?
- 9 Double 2
- 10 Which number, when doubled, equals 20?

### Set F

- 1 I ran 7 kilometres. Jack ran twice this distance. How far did Jack run? \_\_\_\_ kilometres.
- 2 I kicked 22 goals last season, which was twice as many as Stella kicked. How many goals did Stella kick last season? \_\_\_\_ goals.
- 3 Caitlin has \$12 in her purse. I have twice as much as this in my purse. I have \$ \_\_\_\_
- 4 My cards add up to 9 points. David's cards add up to twice this total. They add up to \_\_\_\_ points.
- 5 Luke can swim 25 metres in 22 seconds. This is twice the club record for 25 metres. The club record for 25 metres is \_\_\_\_ seconds.
- 6 A bag of potatoes weighs 8 kilograms. 2 bags of potatoes weigh \_\_\_\_ kilograms.
- 7 I owned 6 model cars but, last Christmas, I was given this number again. I now own \_\_\_\_ model cars.
- 8 In my new novel I am up to page 12. I am twice as far into the book as Sue. She is up to page \_\_\_\_.
- 9 In the tennis championships, Claire won 18 games, which was twice as many games as her opponent. Her opponent won \_\_\_\_ games.
- 10 In the little athletics championships my club won 16 gold medals. This was twice as many as our previous record. Our previous record was \_\_\_\_ gold medals.

## Unit 7 Halving and near halving

## Set A

Halve these numbers:

- |    |    |                      |
|----|----|----------------------|
| 1  | 14 | <input type="text"/> |
| 2  | 8  | <input type="text"/> |
| 3  | 10 | <input type="text"/> |
| 4  | 2  | <input type="text"/> |
| 5  | 18 | <input type="text"/> |
| 6  | 6  | <input type="text"/> |
| 7  | 16 | <input type="text"/> |
| 8  | 20 | <input type="text"/> |
| 9  | 12 | <input type="text"/> |
| 10 | 4  | <input type="text"/> |

## Set B

- |    |             |                      |
|----|-------------|----------------------|
| 1  | $18 - 9 =$  | <input type="text"/> |
| 2  | $12 - 6 =$  | <input type="text"/> |
| 3  | $10 - 5 =$  | <input type="text"/> |
| 4  | $8 - 4 =$   | <input type="text"/> |
| 5  | $24 - 12 =$ | <input type="text"/> |
| 6  | $22 - 11 =$ | <input type="text"/> |
| 7  | $4 - 2 =$   | <input type="text"/> |
| 8  | $14 - 7 =$  | <input type="text"/> |
| 9  | $20 - 10 =$ | <input type="text"/> |
| 10 | $6 - 3 =$   | <input type="text"/> |

If you can double a number, then you can halve it as well, because one is the opposite of the other. It's like saying that if you can add, you must be able to subtract as well, because they are opposites too.

For review purposes only

## Set E

- 1 Find half of 6 \_\_\_\_
- 2 What is half of 24? \_\_\_\_
- 3 Is 7 half of 16? \_\_\_\_
- 4 Find half of 22 \_\_\_\_
- 5 Is 9 half of 18? \_\_\_\_
- 6 Halve 18 \_\_\_\_
- 7 Halve 20 and add on 3 \_\_\_\_
- 8 Halve 24, then halve it again \_\_\_\_
- 9 Take 2 away from half of 16 \_\_\_\_
- 10 Double a half of 10 \_\_\_\_



**Set C**

Write 'more' if the number in brackets is more than half of the given number or 'less' if it is less than half of the given number.

- 1 14 (6) \_\_\_\_\_
- 2 22 (12) \_\_\_\_\_
- 3 6 (4) \_\_\_\_\_
- 4 18 (7) \_\_\_\_\_
- 5 4 (3) \_\_\_\_\_
- 6 12 (7) \_\_\_\_\_
- 7 24 (10) \_\_\_\_\_
- 8 8 (3) \_\_\_\_\_
- 9 10 (4) \_\_\_\_\_
- 10 16 (7) \_\_\_\_\_

What is half the number?

- |    |    |                      |
|----|----|----------------------|
| 1  | 12 | <input type="text"/> |
| 2  | 32 | <input type="text"/> |
| 3  | 28 | <input type="text"/> |
| 4  | 8  | <input type="text"/> |
| 5  | 36 | <input type="text"/> |
| 6  | 40 | <input type="text"/> |
| 7  | 48 | <input type="text"/> |
| 8  | 2  | <input type="text"/> |
| 9  | 0  | <input type="text"/> |
| 10 | 16 | <input type="text"/> |

**Set D****Set F**

- 1 I spelt correctly half of the 14 words on the spelling test. I spelt \_\_\_\_\_ words correctly.
- 2 We kicked 22 goals and our opponents only kicked half as many goals. They kicked \_\_\_\_\_ goals.
- 3 I had \$20 and spent half of this on lollies. I had \$\_\_\_\_\_ left.
- 4 2 bags of onions weigh 12 kilograms and I am carrying 1 bag. I am carrying \_\_\_\_\_ kilograms.
- 5 There are 24 children in my class. Half learn a musical instrument. How many children do not learn a musical instrument? \_\_\_\_\_
- 6 I take size 10 in shoes. My little sister takes half this size. She wears size \_\_\_\_\_ shoes.
- 7 I had 16 shots at goal but only half of the shots were successful. I shot \_\_\_\_\_ goals.
- 8 Last season 18 catches came my way. I held half of them. I took \_\_\_\_\_ catches last season.
- 9 My dad pays \$4.20 on the bus. I pay half fare. A ticket costs me \$\_\_\_\_\_.
- 10 There are 8 states or territories in Australia. Half are bigger than New South Wales. \_\_\_\_\_ states and territories are bigger than NSW.

# Unit 8

## Multiplication: 2 times table

Numbers in the 2 times table are always even and end in a 0, 2, 4, 6 or 8. The skills you developed in the doubling unit of work will help you to find the answers to the following questions.

Which of these numbers are even and will be in the 2 times table? Write 'yes' if the number is in the 2 times table and 'no' if it is not.

**Set A**

1	8	_____
2	17	_____
3	23	_____
4	18	_____
5	21	_____
6	13	_____
7	20	_____
8	14	_____
9	16	_____
10	22	_____

**Set B**

Write 'even' next to all the even numbers and 'odd' next to all the odd numbers.

1	56	_____
2	78	_____
3	91	_____
4	177	_____
5	323	_____
6	430	_____
7	747	_____
8	784	_____
9	132	_____
10	999	_____

For review purposes only

**Set E**

- 1 Multiply 6 by 2 \_\_\_\_\_
- 2 What is the product of 8 and 2? \_\_\_\_\_
- 3 How many groups of 2 make 18? \_\_\_\_\_
- 4 Is 143 an even number? \_\_\_\_\_
- 5 What is 5 times 2? \_\_\_\_\_
- 6 What is the product of 11 and 2? \_\_\_\_\_
- 7 What is the answer to  $5 + 5$ , multiplied by 2? \_\_\_\_\_
- 8 Multiply 6 by 2 and double the answer \_\_\_\_\_
- 9 Take 9 from 12 and then multiply this by 2 \_\_\_\_\_
- 10  $2 \times 2 \times 2 \times 2 =$  \_\_\_\_\_



**Set C**

Multiply these numbers by 2:

1	4	<input type="text"/>
2	9	<input type="text"/>
3	5	<input type="text"/>
4	7	<input type="text"/>
5	1	<input type="text"/>
6	8	<input type="text"/>
7	3	<input type="text"/>
8	11	<input type="text"/>
9	10	<input type="text"/>
10	0	<input type="text"/>

**Set D**

How many 2s will equal these numbers?

1	24	<input type="text"/>
2	16	<input type="text"/>
3	8	<input type="text"/>
4	20	<input type="text"/>
5	2	<input type="text"/>
6	10	<input type="text"/>
7	18	<input type="text"/>
8	0	<input type="text"/>
9	22	<input type="text"/>
10	14	<input type="text"/>

**Set F**

- Jack has twice the number of lollies that I do. I have 7. Jack has \_\_\_ lollies.
- I scored 8 netball goals today. Last weekend, I scored twice as many as this. Last weekend I scored \_\_\_ goals.
- It is currently 5 degrees and is expected to get to twice this temperature. It is expected to reach \_\_\_ degrees.
- On the weekend, 3 buses an hour go past my house. This figure doubles on weekdays. On weekdays, \_\_\_ buses an hour go past my house.
- Stephanie owns 2 times the number of pets that I own. I own 8 pets. Stephanie owns \_\_\_ pets.
- I have read 11 pages of my novel. Cory reads twice as quickly as me. She has just finished page \_\_\_.
- I own 8 pairs of shoes. I own \_\_\_ shoes altogether.
- If I multiply the number of dollars I own by 2, I would have \$100. I currently own \$\_\_\_.
- Our team has scored 20 runs. We must score twice this number of runs to reach our opponent's total. They scored \_\_\_ runs.
- I set the table with a knife and a fork for 4 people. I used \_\_\_ pieces of cutlery.



# Unit 9

## Multiplication: 3 times table

For Sets A and B, write 'yes' next to the numbers with digits that sum to 3, 6 or 9 and 'no' next to those that don't.

The digits of all numbers in the 3 times table sum to 3, 6 or 9. So, the number 24 is in the 3 times table because the tens and the units places add up to 6. In the number 99 the tens and the units places add up to 18, and 1 and 8 add up to 9.

### Set A

1	27	<input type="checkbox"/>
2	31	<input type="checkbox"/>
3	15	<input type="checkbox"/>
4	30	<input type="checkbox"/>
5	17	<input type="checkbox"/>
6	32	<input type="checkbox"/>
7	33	<input type="checkbox"/>
8	52	<input type="checkbox"/>
9	11	<input type="checkbox"/>
10	23	<input type="checkbox"/>

### Set B

1	64	<input type="checkbox"/>
2	40	<input type="checkbox"/>
3	39	<input type="checkbox"/>
4	82	<input type="checkbox"/>
5	48	<input type="checkbox"/>
6	66	<input type="checkbox"/>
7	91	<input type="checkbox"/>
8	84	<input type="checkbox"/>
9	55	<input type="checkbox"/>
10	75	<input type="checkbox"/>

For review purposes only

- Find the product of 3 and 7 \_\_\_\_
- What is 3 multiplied by 9? \_\_\_\_
- 5 groups of 3 make \_\_\_\_
- 8 times 3 equals \_\_\_\_
- Find the product of 3 and 11 \_\_\_\_
- What is the answer to 6 multiplied by 3? \_\_\_\_
- Zero threes equal \_\_\_\_
- 12 groups of 3 is more than 40. True, or false? \_\_\_\_
- $2 \times 3 \times 3 =$  \_\_\_\_
- $10 \times 3 \times 2 =$  \_\_\_\_

### Set E

# Set C

- 1  $3 \times 3 =$
- 2  $8 \times 3 =$
- 3  $11 \times 3 =$
- 4  $10 \times 3 =$
- 5  $6 \times 3 =$
- 6  $1 \times 3 =$
- 7  $12 \times 3 =$
- 8  $0 \times 3 =$
- 9  $7 \times 3 =$
- 10  $5 \times 3 =$

How many groups of 3  
make these numbers?

# Set D

- 1 9
- 2 12
- 3 27
- 4 15
- 5 33
- 6 6
- 7 18
- 8 36
- 9 21
- 10 3

# Set F

- 1 I kicked 4 goals for my team last week. So far this season I have kicked 3 times as many goals as this. This season I have kicked \_\_\_\_ goals.
- 2 If I tripled the number of dolls I own, I would have 12 dolls. Now I own \_\_\_\_ dolls.
- 3 1 banana costs 11 cents. 3 bananas cost \_\_\_\_ cents.
- 4 My little brother owns 5 tricycles. Altogether, these tricycles have \_\_\_\_ wheels.
- 5 How many horns would be on the faces of 7 toy triceratops? \_\_\_\_
- 6 How many legs are on 10 tripods? \_\_\_\_
- 7 How many stumps in 3 sets of cricket stumps? \_\_\_\_
- 8 Emma shot 8 three pointers in her last basketball game. This was equal to \_\_\_\_ points for her team.
- 9 An apple costs 12 cents. 3 apples cost \_\_\_\_ cents.
- 10 How many months in 9 seasons? \_\_\_\_

# Unit 10

## Multiplication: 4 times table

All numbers in the 4 times table have to be even, because these numbers are also in the 2 times table. However, be careful! Only every second number in the 2 times table is in the 4 times table. For example, 2 isn't, 4 is, 6 isn't, 8 is, and so on.

### Set A

Circle the numbers that could not possibly be in the 4 times table:

11 72 56 92 77 87 88 89 129 232  
64 74 23 81 24 85 70 121 68 47

### Set B

Circle the numbers that are in the 4 times table:

2 4 6 8 10 12 14 16 18 20 22  
24 26 28 30 32 34 36 38 40

### Set E

- 1 How many groups of 4 equal 28? \_\_\_\_
- 2 Find the product of 11 and 4 \_\_\_\_
- 3 Quadruple 8 \_\_\_\_
- 4 Zero times 4 equals \_\_\_\_
- 5 Multiply 6 by 4 \_\_\_\_
- 6 Find the product of 2 and 4 \_\_\_\_
- 7 What is the result when 9 is multiplied by 4? \_\_\_\_
- 8 Quadruple 5 \_\_\_\_
- 9 Multiply 7 by 4 and then add 10 \_\_\_\_
- 10 Find the answer to 4 multiplied by itself \_\_\_\_.

Set C

- 1  $3 \times 4 =$
- 2  $8 \times 4 =$
- 3  $11 \times 4 =$
- 4  $9 \times 4 =$
- 5  $12 \times 4 =$
- 6  $6 \times 4 =$
- 7  $0 \times 4 =$
- 8  $2 \times 4 =$
- 9  $10 \times 4 =$
- 10  $5 \times 4 =$



How many groups of 4 make these numbers?

Set D

- 1 24
- 2 12
- 3 44
- 4 4
- 5 48
- 6 0
- 7 32
- 8 16
- 9 36
- 10 28



Set F

- 1 In the morning it was only 4 degrees, but during the day it was 4 times as warm. The top temperature for the day was \_\_\_\_ degrees.
- 2 My friend Laura owns 6 horses. The horses have \_\_\_\_ legs altogether.
- 3 How many seasons in 10 years? \_\_\_\_
- 4 I am up to page 7 in my book. It is 4 times as long as this. The book is \_\_\_\_ pages long.
- 5 I own a dog, a cat and 9 mice. They have \_\_\_\_ legs altogether.
- 6 I struck 5 fours and then was out. I scored \_\_\_\_ runs.
- 7 I am at school for about 6 hours. A day is 4 times as long as this. A day contains \_\_\_\_ hours.
- 8 How many Jacks, Queens and Kings are in a deck of cards altogether? \_\_\_\_
- 9 How many quarters in 8 games of football? \_\_\_\_
- 10 My big brother is 12 years old. My dad is 4 times as old as this. My Dad is \_\_\_\_ years old.

# Multiplication: The 5 times and 10 times tables

Set A

Circle the numbers that could not be in the 5 times or 10 times tables:

11 75 70 23 48 65 93 772 800 725  
27 80 100 81 64 89 20 73 35 95

Numbers in the 5 times table end in either a 5 or a 0. Numbers in the 10 times table end in a 0. So, if a number ends in a 7, it will be 2 past a number in the 5 times table or 7 past a number in the 10 times table.

Set B

How far past a number in the 5 times table are the following numbers?

1	22	<input type="checkbox"/>
2	46	<input type="checkbox"/>
3	78	<input type="checkbox"/>
4	49	<input type="checkbox"/>
5	93	<input type="checkbox"/>
6	146	<input type="checkbox"/>
7	544	<input type="checkbox"/>
8	788	<input type="checkbox"/>
9	566	<input type="checkbox"/>
10	129	<input type="checkbox"/>

Set E

- 1 What is the product of 6 and 5? \_\_\_\_
- 2 Multiply 10 by itself \_\_\_\_
- 3 11 groups of 5 equal \_\_\_\_
- 4 2 times 5 times 10 equals \_\_\_\_
- 5 What is 8 times 5? \_\_\_\_
- 6 Add 10 to the product of 10 and 3 \_\_\_\_
- 7 How many past a number in the 5 times table is the number 58? \_\_\_\_
- 8 What is the closest number in the 10 times table to 73? \_\_\_\_
- 9 Double the product of 5 and 10 \_\_\_\_
- 10 Reduce  $9 \times 10$  by twenty \_\_\_\_

For review purposes only



How far past a number in the 10 times table are these numbers?

**Set C**

1	13	<input type="text"/>
2	27	<input type="text"/>
3	35	<input type="text"/>
4	48	<input type="text"/>
5	66	<input type="text"/>
6	79	<input type="text"/>
7	93	<input type="text"/>
8	106	<input type="text"/>
9	111	<input type="text"/>
10	123	<input type="text"/>

**Set D**

1	$4 \times 5 =$	<input type="text"/>
2	$6 \times 10 =$	<input type="text"/>
3	$8 \times 5 =$	<input type="text"/>
4	$12 \times 10 =$	<input type="text"/>
5	$5 \times 5 =$	<input type="text"/>
6	$4 \times 10 =$	<input type="text"/>
7	$9 \times 5 =$	<input type="text"/>
8	$11 \times 10 =$	<input type="text"/>
9	$7 \times 5 =$	<input type="text"/>
10	$10 \times 10 =$	<input type="text"/>

**Set F**

**For review purposes only**

- 1 A pentagon has 5 sides. How many sides in 8 pentagons? \_\_\_\_
- 2 A squid has 10 legs. How many legs on 10 squids? \_\_\_\_
- 3 It was 3 degrees this morning and rose to be 5 times as warm in the afternoon. In the afternoon it was \_\_\_\_ degrees.
- 4 How many sides on 8 decagons? \_\_\_\_
- 5 My little sister is 7 years old. My mum is 5 times this age. She is \_\_\_\_ years old.
- 6 I am 9 years old. My great-grandfather is 10 times as old as me. He is \_\_\_\_ years old.
- 7 Jade runs 5 kilometres every day for cross-country training. Last week she ran \_\_\_\_ kilometres.
- 8 A heptagon has 7 sides. How many sides in 10 heptagons? \_\_\_\_ sides.
- 9 I saved six \$5 notes. I have \$ \_\_\_\_ altogether.
- 10 My uncle is as old as 4 decades. He is \_\_\_\_ years old.

# Unit 12 Division: Dividing by 2

## Set A

Which of these numbers will divide by 2 and not leave a remainder? Circle them.

6 13 17 22 8 19 21 20 10 7 39  
18 53 81 34 56 45 97 12 48

Dividing means to break up into equal pieces.

Dividing by 2 is the same as halving, or to break something up into 2 equal pieces.

Dividing is the opposite of multiplying. If you can multiply by 2, you can divide by 2 just as easily.

Division is also a quick way of subtracting over and over again.

So, 10 divided by 2 really means

'How many times can you take away 2 from 10?'

## Set B

Divide these numbers by 2:

1	14	<input type="checkbox"/>
2	22	<input type="checkbox"/>
3	6	<input type="checkbox"/>
4	10	<input type="checkbox"/>
5	24	<input type="checkbox"/>
6	2	<input type="checkbox"/>
7	12	<input type="checkbox"/>
8	4	<input type="checkbox"/>
9	8	<input type="checkbox"/>
10	20	<input type="checkbox"/>

1 Divide 20 by 2 \_\_\_\_

2 What is the quotient of 14 and 2? \_\_\_\_

3 How many times will 2 divide into 16? \_\_\_\_

4 Split 22 into 2 equal groups \_\_\_\_

5 Divide 18 by 2 \_\_\_\_

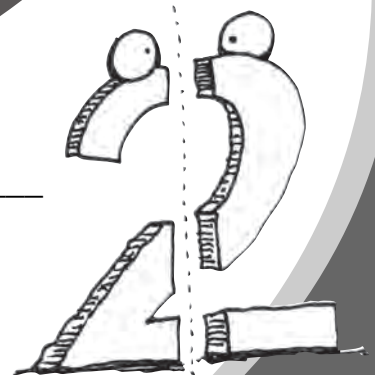
6 What is the answer to 2 divided by 2? \_\_\_\_

7 What is the remainder when 23 is divided by 2? \_\_\_\_

8 Does 2 divide into 10 without a remainder? \_\_\_\_

9 Divide 20 by 2 and then by 2 again \_\_\_\_

10 What is the remainder when 12 is divided by 2? \_\_\_\_



# Set C

Which numbers have been divided by 2 to produce these answers?

- |    |    |                          |
|----|----|--------------------------|
| 1  | 3  | <input type="checkbox"/> |
| 2  | 7  | <input type="checkbox"/> |
| 3  | 10 | <input type="checkbox"/> |
| 4  | 8  | <input type="checkbox"/> |
| 5  | 1  | <input type="checkbox"/> |
| 6  | 6  | <input type="checkbox"/> |
| 7  | 2  | <input type="checkbox"/> |
| 8  | 5  | <input type="checkbox"/> |
| 9  | 4  | <input type="checkbox"/> |
| 10 | 12 | <input type="checkbox"/> |



Answer 'true' or 'false':

# Set D

- |    |                  |       |
|----|------------------|-------|
| 1  | $22 \div 2 = 11$ | _____ |
| 2  | $12 \div 2 = 6$  | _____ |
| 3  | $14 \div 2 = 8$  | _____ |
| 4  | $18 \div 2 = 7$  | _____ |
| 5  | $20 \div 2 = 10$ | _____ |
| 6  | $23 \div 2 = 12$ | _____ |
| 7  | $6 \div 2 = 4$   | _____ |
| 8  | $16 \div 2 = 8$  | _____ |
| 9  | $14 \div 2 = 7$  | _____ |
| 10 | $12 \div 2 = 6$  | _____ |

# Set F

- 1 Ben and Sean shared 14 marbles equally. They received \_\_\_\_\_ marbles each.
- 2 A dollar split into 2 equal parts gives 2 \_\_\_\_\_ coins.
- 3 I had to share my 24 horse stickers equally with my sister. We then had \_\_\_\_\_ stickers each.
- 4 In the cricket match the 10 wickets were shared equally between 2 bowlers. They took \_\_\_\_\_ wickets each.
- 5 I had 16 shots at goal. These shots were equally split between goals and behinds. How many goals did I score? \_\_\_\_\_.
- 6 18 votes were cast for house captain and the 2 girls standing each received the same number of votes. The 2 girls each received \_\_\_\_\_ votes.
- 7 I was asked to share \$12 equally with my brother. We received \$\_\_\_\_\_ each.
- 8 Our goal shooter and goal attack, between them, scored 22 goals in the netball match. They scored the same number of goals. Each scored \_\_\_\_\_ goals.
- 9 Can seven \$1 coins be shared equally between 2 children? \_\_\_\_\_
- 10 Why or why not? \_\_\_\_\_

# Unit 13 Division: Dividing by 3

Set A

Which of these numbers could be divided by 3 without giving a remainder? Circle them.

15 33 31 13 27 37 24 28 9 111  
63 72 38 26 45 20 42 19 22 34

When we divide a number or an amount by 3, it is the opposite of multiplying by 3. If 12 is divided by 3, or split into 3 equal parts, we count in groups of 3 until we reach 12: 3, 6, 9, 12 = 4 groups; and so, 12 split into 3 equal parts equals 4.

Remember that if a number can be divided by 3 without a remainder, it must be in the 3 times table, with its digits summing to either 3, 6 or 9.

Set B

Divide these numbers by 3:

1	9	<input type="text"/>
2	18	<input type="text"/>
3	30	<input type="text"/>
4	12	<input type="text"/>
5	3	<input type="text"/>
6	21	<input type="text"/>
7	36	<input type="text"/>
8	15	<input type="text"/>
9	0	<input type="text"/>
10	24	<input type="text"/>

Set E

- Divide 27 by 3 \_\_\_\_
- What is the quotient of 33 and 3? \_\_\_\_
- How many times could 3 be taken away from 21? \_\_\_\_
- Divide 18 by 3 \_\_\_\_
- Split 12 into 3 equal pieces \_\_\_\_
- What is the quotient of 9 and 3? \_\_\_\_
- How many times can 3 be taken away from 15? \_\_\_\_
- Split 24 into 3 equal pieces \_\_\_\_
- What is the remainder when 22 is divided by 3? \_\_\_\_
- What number has been divided by 3 to produce 10? \_\_\_\_

# Set C

Which numbers have been divided by 3 to produce the following answers?

1	6	<input type="checkbox"/>
2	2	<input type="checkbox"/>
3	11	<input type="checkbox"/>
4	1	<input type="checkbox"/>
5	8	<input type="checkbox"/>
6	10	<input type="checkbox"/>
7	7	<input type="checkbox"/>
8	0	<input type="checkbox"/>
9	4	<input type="checkbox"/>
10	9	<input type="checkbox"/>

What will the remainders be when these numbers are divided by 3?

# Set D

1	4	<input type="checkbox"/>
2	11	<input type="checkbox"/>
3	21	<input type="checkbox"/>
4	17	<input type="checkbox"/>
5	31	<input type="checkbox"/>
6	18	<input type="checkbox"/>
7	8	<input type="checkbox"/>
8	27	<input type="checkbox"/>
9	24	<input type="checkbox"/>
10	29	<input type="checkbox"/>

# Set F

- My triangles have 6 sides altogether. How many triangles do I have? \_\_\_\_
- The 21 children in the class were divided into 3 teams. There were \_\_\_\_ children in each team.
- My basketball three pointers were worth 33 points for my team. I scored \_\_\_\_ three pointers.
- 9 months equals \_\_\_\_ seasons.
- I shared \$18 equally with my 2 sisters. We each received \$\_\_\_\_.
- In the last 3 games, my rugby team has scored a total of 24 points and scored the same number of points in each game. In each game we scored \_\_\_\_ points.
- My triceratops models have 12 horns altogether. I own \_\_\_\_ triceratops models.
- In my piggy bank I have a total of \$30 in \$10 notes. I have \_\_\_\_ \$10 notes in my piggy bank.
- A yard was an old measure of about a metre and each yard was equal to 3 feet. 15 feet was equal to \_\_\_\_ yards.
- In the first 27 days of this month it has rained every third day. This month it has rained on \_\_\_\_ days.



# Unit 14 Division: Dividing by 4

Set A

Which of these numbers, when divided by 4, could not possibly leave a whole number with no remainder? Circle them.

44 31 77 24 42 69 121 80 235 212  
23 88 37 19 92 100 251 93 120 52

## Remember

that to divide by 4 is the exact opposite of multiplying by 4. If 4 groups of 3 equal 12, then 12 divided by 3 must equal 4. If a number is divisible by 4, it must be even.



Set B

Divide these numbers by 4:

1	28	<input type="checkbox"/>
2	40	<input type="checkbox"/>
3	8	<input type="checkbox"/>
4	12	<input type="checkbox"/>
5	20	<input type="checkbox"/>
6	4	<input type="checkbox"/>
7	16	<input type="checkbox"/>
8	24	<input type="checkbox"/>
9	36	<input type="checkbox"/>
10	48	<input type="checkbox"/>

Set E

- What is the quotient of 44 and 4? \_\_\_\_
- Divide 32 by 4 \_\_\_\_
- How many fours will go into 24? \_\_\_\_
- How many times can 4 be taken away from 16? \_\_\_\_
- What is the remainder when 41 is divided by 4? \_\_\_\_
- Which number, when divided by 4 and then by 4 again, will give 1 as the answer? \_\_\_\_
- Divide 48 by 4 and then remove 2 from the answer \_\_\_\_
- What is the closest number to 35 that can be divided by 4 without a remainder? \_\_\_\_
- Find the quotient of 32 and 4 and add 10 to the result \_\_\_\_
- Divide 40 by the sum of 2 and 2 \_\_\_\_

**Set C**

Which numbers have been divided by 4 to produce these answers?

1	5	<input type="checkbox"/>
2	9	<input type="checkbox"/>
3	3	<input type="checkbox"/>
4	0	<input type="checkbox"/>
5	11	<input type="checkbox"/>
6	2	<input type="checkbox"/>
7	10	<input type="checkbox"/>
8	7	<input type="checkbox"/>
9	6	<input type="checkbox"/>
10	4	<input type="checkbox"/>

What is the remainder when these numbers are divided by 4?

**Set D**

1	11	<input type="checkbox"/>
2	7	<input type="checkbox"/>
3	10	<input type="checkbox"/>
4	22	<input type="checkbox"/>
5	31	<input type="checkbox"/>
6	6	<input type="checkbox"/>
7	39	<input type="checkbox"/>
8	27	<input type="checkbox"/>
9	46	<input type="checkbox"/>
10	29	<input type="checkbox"/>



**Set F**

- 8 pies were shared among 4 families. Each family received \_\_\_\_ pies.
- I own toy horses which, altogether, have 24 legs. I own \_\_\_\_ toy horses.
- The squares in my set of blocks have 16 sides. There are \_\_\_\_ squares in my set.
- I have a dozen eggs and will make cakes that require 4 eggs each. I will bake \_\_\_\_ cakes.
- The 48 children in Year 3 were split into 4 houses. Each house has \_\_\_\_ children in it.
- 36 Easter eggs were shared among 4 children. Each received \_\_\_\_ eggs.
- Farmer Brown owns pigs that have a total of 40 legs altogether. Farmer Brown owns \_\_\_\_ pigs.
- It has been wet on every fourth day this month. We are at day 20 of the month. Is it wet today? \_\_\_\_
- Can I equally share 42 lollies with my 3 best friends? \_\_\_\_
- I have played 4 quarters of football. I have played in \_\_\_\_ whole game of football.

# Unit 15 Division: Dividing by 5 and 10

## Dividing by 5

or by 10 means to split something into 5 or 10 equal pieces. If a number can be divided by 5, with no remainder, it must be in the 5 times table and end in either a 5 or a 0. If it ends in a 6 or a 1, it must have a remainder of 1 when divided by 5. If it ends in a 7 or a 2, it must have a remainder of 2 when divided by 5, and so on. If a number ends in a 4, when divided by 10, it will leave 4 as a remainder. If it ends in an 8, it will leave 8 as a remainder when divided by 10, and so on.

Which of these numbers are not in the 5 or 10 times tables? Circle them.

23 75 245 80 92 120 330 789 57 375  
79 43 67 90 45 98 65 101 86 125

Set A

Set B

What is the remainder when these numbers are divided by 5?

1	23	<input type="checkbox"/>
2	19	<input type="checkbox"/>
3	36	<input type="checkbox"/>
4	40	<input type="checkbox"/>
5	61	<input type="checkbox"/>
6	82	<input type="checkbox"/>
7	8	<input type="checkbox"/>
8	94	<input type="checkbox"/>
9	85	<input type="checkbox"/>
10	77	<input type="checkbox"/>

Set E

- Divide 35 by 5 \_\_\_\_
- What is the quotient of 60 and 10? \_\_\_\_
- How many times can 5 be subtracted from 20? \_\_\_\_
- What is the remainder when 47 is divided by 10? \_\_\_\_
- Can 54 be divided by 5 with no remainder? \_\_\_\_
- How many tens go into 30? \_\_\_\_
- Can 55 pieces of paper be shared equally among 5 people? \_\_\_\_
- Divide 50 by 5 and then by 10 \_\_\_\_
- Take 4 away from the quotient of 40 and 5 \_\_\_\_
- How many tens will divide into a half of 60? \_\_\_\_

# Set C

Divide these numbers by 5:

1	15	<input type="text"/>
2	55	<input type="text"/>
3	30	<input type="text"/>
4	0	<input type="text"/>
5	25	<input type="text"/>
6	5	<input type="text"/>
7	20	<input type="text"/>
8	45	<input type="text"/>
9	60	<input type="text"/>
10	10	<input type="text"/>

Which numbers have been divided by 10 to produce the following answers?

# Set D

1	3	<input type="text"/>
2	7	<input type="text"/>
3	10	<input type="text"/>
4	2	<input type="text"/>
5	8	<input type="text"/>
6	11	<input type="text"/>
7	9	<input type="text"/>
8	1	<input type="text"/>
9	4	<input type="text"/>
10	12	<input type="text"/>

# Set F

- My set of pentagons has 35 sides. I have \_\_\_\_ pentagons in my set.
- In my piggy bank I have \$25, all in \$5 notes. In my piggy bank are \_\_\_\_ five dollar notes.
- I have 40 cents in 5 cent coins. I have \_\_\_\_ 5 cent coins.
- The pentathlon is an event with 5 different sports in it. I completed 50 pentathlon sports last summer. Last summer I participated in \_\_\_\_ pentathlons.
- I shared \$15 with 4 of my friends. We each received \$ \_\_\_\_.
- Our school owns some mini buses, which each hold 10 children. 40 children were on an excursion yesterday and were in \_\_\_\_ mini buses.
- Scorpions have 10 legs. My friend Boris has a collection of pet scorpions which, altogether, have 70 legs. Boris owns \_\_\_\_ pet scorpions.
- My family can boast a total of 60 fingers among them. There are \_\_\_\_ people in my family.
- My great-great-grandmother is 100 years old. She has lived for \_\_\_\_ decades.
- The 80 children in Grade 3 were divided into 10 teams for house sport. There were \_\_\_\_ children in each team.

# Unit 16 Fractions:

## Halves, quarters and parts of an amount

A fraction is a piece or a part of a larger thing or group. Fractions are very similar to division sums. Finding a half of something is the same as dividing it by 2. Finding a quarter of something is the same as dividing it by 4, and so on.

### Set A

- 1  $\frac{1}{2}$  of 20 =
- 2  $\frac{1}{2}$  of 12 =
- 3  $\frac{1}{2}$  of 44 =
- 4  $\frac{1}{2}$  of 30 =
- 5  $\frac{1}{2}$  of 100 =
- 6  $\frac{1}{2}$  of 18 =
- 7  $\frac{1}{2}$  of 60 =
- 8  $\frac{1}{2}$  of 88 =
- 9  $\frac{1}{2}$  of 66 =
- 10  $\frac{1}{2}$  of 50 =

### Set B

- 1  $\frac{1}{4}$  of 8 =
- 2  $\frac{1}{4}$  of 40 =
- 3  $\frac{1}{4}$  of 16 =
- 4  $\frac{1}{4}$  of 20 =
- 5  $\frac{1}{4}$  of 28 =
- 6  $\frac{1}{4}$  of 80 =
- 7  $\frac{1}{4}$  of 32 =
- 8  $\frac{1}{4}$  of 36 =
- 9  $\frac{1}{4}$  of 44 =
- 10  $\frac{1}{4}$  of 24 =

### Set E

- 1 Find a half of 14 \_\_\_\_
- 2 Find a quarter of 16 \_\_\_\_
- 3 Split 42 into 2 equal pieces \_\_\_\_
- 4 Split 12 into 4 equal pieces \_\_\_\_
- 5 What fraction of 40 is 10? \_\_\_\_
- 6 What fraction of 40 is 20? \_\_\_\_
- 7 What fraction of 32 is 16? \_\_\_\_
- 8 What fraction of 80 is 20? \_\_\_\_
- 9 Is 23 a half of 66? \_\_\_\_
- 10 Is 15 a quarter of 60? \_\_\_\_





How many halves are in the following number of soccer games?

**Set C**

1	6	<input type="checkbox"/>
2	3	<input type="checkbox"/>
3	10	<input type="checkbox"/>
4	5	<input type="checkbox"/>
5	9	<input type="checkbox"/>
6	2	<input type="checkbox"/>
7	11	<input type="checkbox"/>
8	4	<input type="checkbox"/>
9	7	<input type="checkbox"/>
10	12	<input type="checkbox"/>



How many quarters are in the following number of basketball games?

**Set D**

1	3	<input type="checkbox"/>
2	8	<input type="checkbox"/>
3	6	<input type="checkbox"/>
4	2	<input type="checkbox"/>
5	10	<input type="checkbox"/>
6	9	<input type="checkbox"/>
7	5	<input type="checkbox"/>
8	11	<input type="checkbox"/>
9	4	<input type="checkbox"/>
10	7	<input type="checkbox"/>

## For review purposes only

- Half of my 24 stickers are swaps. I have \_\_\_\_ swaps.
- A quarter of 24 tomatoes are damaged. \_\_\_\_ tomatoes are damaged.
- There are \_\_\_\_ quarters in half a game of football.
- 5 games of basketball contain \_\_\_\_ quarters.
- 11 games of hockey contain \_\_\_\_ halves.
- 3 months is \_\_\_\_ of a semester.
- If there are 4 terms in a school year, each term is \_\_\_\_ of the year.
- My glass holds  $\frac{1}{4}$  of a litre of milk. \_\_\_\_ of these glasses will come from a 2 litre bottle of milk.
- 6 months is what fraction of a year? \_\_\_\_
- 3 months is what fraction of a year? \_\_\_\_



## Place Value: Digit recognition

We all know

that our counting or numeration system is based on the number 10, because we have 10 fingers. So, each time we have 10 of a basic unit, we need to introduce a new value. 10 ones or units make a 10; 10 tens make a hundred; 10 hundreds make a thousand, and so on.

## Set A

What is the 3 worth in the following numbers? Write 'U' for units, 'T' for tens and 'H' for hundreds.

- |    |     |                          |
|----|-----|--------------------------|
| 1  | 23  | <input type="checkbox"/> |
| 2  | 358 | <input type="checkbox"/> |
| 3  | 732 | <input type="checkbox"/> |
| 4  | 837 | <input type="checkbox"/> |
| 5  | 403 | <input type="checkbox"/> |
| 6  | 396 | <input type="checkbox"/> |
| 7  | 830 | <input type="checkbox"/> |
| 8  | 943 | <input type="checkbox"/> |
| 9  | 103 | <input type="checkbox"/> |
| 10 | 731 | <input type="checkbox"/> |

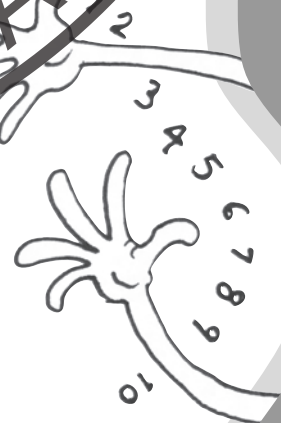
## Set B

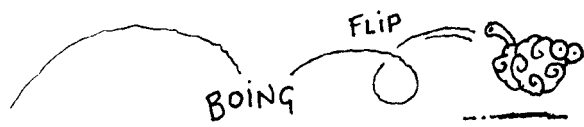
Write down the values of these numbers:

- |    |                        |                          |
|----|------------------------|--------------------------|
| 1  | 6 tens + 8 units       | <input type="checkbox"/> |
| 2  | 2 tens + 8 units       | <input type="checkbox"/> |
| 3  | 3 tens + 3 units       | <input type="checkbox"/> |
| 4  | 5 tens - 2 units       | <input type="checkbox"/> |
| 5  | 8 tens - 1 unit        | <input type="checkbox"/> |
| 6  | 9 tens - 8 units       | <input type="checkbox"/> |
| 7  | 3 tens x 3 =           | <input type="checkbox"/> |
| 8  | 5 tens x 10 =          | <input type="checkbox"/> |
| 9  | 4 tens x 5 =           | <input type="checkbox"/> |
| 10 | 8 tens divided by 10 = | <input type="checkbox"/> |

## Set E

- 1 Find the total when 4 tens are added to 5 tens \_\_\_\_
- 2 Find the product of 8 tens and 2 \_\_\_\_
- 3 Find the difference between 6 tens and 3 tens \_\_\_\_
- 4 Find the quotient of 8 tens and 10 \_\_\_\_
- 5 How many tens make 340? \_\_\_\_
- 6 How many units make 87 tens? \_\_\_\_
- 7 How many units make 4 hundreds plus 4 tens? \_\_\_\_
- 8 Do 20 tens equal two thousand? \_\_\_\_
- 9 Do 30 tens equal 300? \_\_\_\_
- 10 By how much are 10 tens bigger than 4 tens? \_\_\_\_





# Answers

## Unit 1 Addition: Bonding to 10

Set A	Set B	Set C	Set D	Set E	Set F
1 5	1 5	1 4	1 6	1 10	1 \$6
2 1	2 4	2 2	2 2	2 10	2 2
3 8	3 6	3 6	3 5	3 13	3 7
4 4	4 4	4 2	4 9	4 14	4 3 dollar coins
5 9	5 1	5 1	5 3	5 12	5 4
6 7	6 8	6 4	6 10	6 17	6 5
7 2	7 4	7 1	7 8	7 18	7 2
8 3	8 1	8 1	8 1	8 16	8 2
9 6	9 1	9 5	9 0	9 16	9 3
10 10	10 2	10 4	10 7	10 19	10 0

## Unit 2 Addition: Adding on 10

Set A	Set B	Set C	Set D	Set E	Set F
1 13	1 14	1 17	1 31	1 43	1 58
2 15	2 18	2 17	2 53	2 97	2 68
3 17	3 12	3 18	3 48	3 65	3 97
4 10	4 15	4 14	4 80	4 53	4 \$33
5 14	5 17	5 17	5 95	5 27	5 93
6 16	6 11	6 18	6 66	6 36	6 35
7 11	7 13	7 19	7 59	7 78	7 21
8 19	8 16	8 13	8 55	8 21	8 42
9 12	9 19	9 16	9 27	9 yes	9 39
10 18	10 10	10 17	10 104	10 no	10 53

## Unit 3 Addition: Adding on 1 or 11

Set A	Set B	Set C	Set D	Set E	Set F
1 16	1 14	1 32	1 27	1 16	1 18
2 14	2 19	2 93	2 94	2 66	2 34
3 10	3 13	3 57	3 63	3 43	3 63
4 15	4 18	4 26	4 103	4 83	4 48
5 12	5 20	5 103	5 81	5 58	5 73
6 9	6 12	6 42	6 40	6 59	6 84
7 11	7 21	7 84	7 59	7 41	7 31
8 17	8 16	8 49	8 77	8 94	8 82
9 13	9 11	9 77	9 48	9 yes	9 17
10 18	10 15	10 66	10 110	10 no	10 60

## Unit 4 Subtraction: Subtracting from 10

Set A	Set B	Set C	Set D	Set E	Set F
1 6	1 6	1 5	1 5	1 twice	1 6
2 1	2 3	2 3	2 2	2 5 times	2 3
3 3	3 9	3 1	3 8	3 10 times	3 2
4 7	4 5	4 2	4 1	4 2	4 7
5 9	5 10	5 1	5 3	5 4	5 8
6 2	6 7	6 1	6 8	6 no	6 7
7 4	7 4	7 2	7 10	7 5	7 2
8 10	8 2	8 7	8 3	8 10	8 3
9 5	9 8	9 1	9 4	9 2	9 6
10 8	10 1	10 3	10 yes	10 1	10 4

# Answers



## Unit 5 Subtraction: Subtracting 10, 9 or 11

Set A	Set B	Set C	Set D	Set E	Set F
1 5	1 45	1 21	1 43	1 28	1 31
2 13	2 65	2 63	2 77	2 88	2 10
3 35	3 3	3 48	3 16	3 62	3 3
4 72	4 30	4 9	4 84	4 21	4 \$23
5 88	5 69	5 16	5 29	5 38	5 26
6 27	6 42	6 73	6 62	6 12	6 17
7 38	7 38	7 69	7 34	7 43	7 87
8 80	8 29	8 17	8 22	8 83	8 74
9 11	9 8	9 62	9 20	9 54	9 11
10 64	10 71	10 79	10 31	10 78	10 9

## Unit 6 Doubling and near doubling

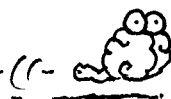
Set A	Set B	Set C	Set D	Set E	Set F
1 6	1 9	1 11	1 14	1 13	1 14
2 16	2 13	2 5	2 9	2 12	2 11
3 4	3 15	3 21	3 2	3 13	3 \$24
4 18	4 3	4 9	4 4	4 18	4 18
5 0	5 7	5 15	5 16	5 4	5 11
6 14	6 11	6 19	6 3	6 3	6 16
7 2	7 1	7 13	7 12	7 2	7 12
8 10	8 19	8 7	8 5	8 22	8 6
9 12	9 17	9 17	9 4	9 4	9 9
10 8	10 5	10 3	10 10	10 6	10 8

## Unit 7 Halving and near halving

Set A	Set B	Set C	Set D	Set E	Set F
1 7	1 9	1 less	1 6	1 3	1 7
2 4	2 6	2 more	2 16	2 12	2 11
3 5	3 5	3 more	3 14	3 no	3 \$10
4 1	4 4	4 less	4 4	4 11	4 6
5 9	5 12	5 more	5 18	5 yes	5 12
6 3	6 11	6 more	6 20	6 9	6 5
7 8	7 2	7 less	7 24	7 13	7 8
8 10	8 7	8 less	8 1	8 6	8 9
9 6	9 10	9 less	9 0	9 6	9 \$2.10
10 2	10 3	10 less	10 8	10 10	10 4

## Unit 8 Multiplication: The 2 times table

Set A	Set B	Set C	Set D	Set E	Set F
1 yes	1 even	1 8	1 12	1 12	1 14
2 no	2 even	2 18	2 8	2 16	2 16
3 no	3 odd	3 10	3 4	3 9	3 10
4 yes	4 odd	4 14	4 10	4 no	4 6
5 no	5 odd	5 2	5 1	5 10	5 16
6 no	6 even	6 16	6 5	6 22	6 22
7 yes	7 odd	7 6	7 9	7 20	7 16
8 yes	8 even	8 22	8 0	8 24	8 \$50
9 yes	9 even	9 20	9 11	9 6	9 40
10 yes	10 odd	10 0	10 7	10 16	10 8



## Unit 9 Multiplication: The 3 times table

Set A	Set B	Set C	Set D	Set E	Set F
1 yes	1 no	1 9	1 3	1 21	1 12
2 no	2 no	2 24	2 4	2 27	2 4
3 yes	3 yes	3 33	3 9	3 15	3 33
4 yes	4 no	4 30	4 5	4 24	4 15
5 no	5 yes	5 18	5 11	5 33	5 21
6 no	6 yes	6 3	6 2	6 18	6 30
7 yes	7 no	7 36	7 6	7 0	7 9
8 no	8 yes	8 0	8 12	8 false	8 24
9 no	9 no	9 21	9 7	9 18	9 36
10 no	10 yes	10 15	10 1	10 60	10 27

## Unit 10 Multiplication: The 4 times table

Set A	Set B	Set C	Set D	Set E	Set F
11	4	1 12	1 6	1 7	1 16
77	8	2 32	2 3	2 44	2 24
87	12	3 44	3 11	3 32	3 40
89	16	4 36	4 1	4 0	4 28
129	20	5 48	5 12	5 24	5 44
23	24	6 24	6 0	6 8	6 20
81	28	7 0	7 8	7 36	7 24
85	32	8 8	8 4	8 20	8 12
121	36	9 40	9 9	9 38	9 32
47	40	10 20	10 7	10 16	10 48

## Unit 11 Multiplication: The 5 times and 10 times tables

Set A	Set B	Set C	Set D	Set E	Set F
11	1 2	1 3	1 20	1 30	1 40
23	2 1	2 7	2 60	2 100	2 100
48	3 3	3 5	3 40	3 55	3 15
93	4 4	4 8	4 120	4 100	4 80
772	5 3	5 6	5 25	5 40	5 35
27	6 1	6 9	6 40	6 40	6 90
81	7 4	7 3	7 45	7 3	7 35
64	8 3	8 6	8 110	8 70	8 70
89	9 1	9 1	9 35	9 100	9 \$30
73	10 4	10 3	10 100	10 70	10 40

## Unit 12 Division: Dividing by 2

Set A	Set B	Set C	Set D	Set E	Set F
6	1 7	1 6	1 true	1 10	1 7
22	2 11	2 14	2 true	2 7	2 50-cent
8	3 3	3 20	3 false	3 8	3 12
20	4 5	4 16	4 false	4 11	4 5
10	5 12	5 2	5 true	5 9	5 8
18	6 1	6 12	6 false	6 1	6 9
34	7 6	7 4	7 false	7 1	7 \$6
56	8 2	8 10	8 true	8 yes	8 11
12	9 4	9 8	9 true	9 5	9 no
48	10 10	10 24	10 true	10 0	10 there is a remainder





## Unit 13 Division: Dividing by 3

Set A	Set B	Set C	Set D	Set E	Set F
15	1 3	1 18	1 1	1 9	1 2
33	2 6	2 6	2 2	2 11	2 7
27	3 10	3 33	3 0	3 7	3 11
24	4 4	4 3	4 2	4 6	4 3
9	5 1	5 24	5 1	5 4	5 \$6
111	6 7	6 30	6 0	6 3	6 8
63	7 12	7 21	7 2	7 5	7 4
72	8 5	8 0	8 0	8 8	8 3
45	9 0	9 12	9 0	9 1	9 5
42	10 8	10 27	10 2	10 30	10 9

## Unit 14 Division: Dividing by 4

Set A	Set B	Set C	Set D	Set E	Set F
31	1 7	1 20	1 3	1 11	1 2
77	2 10	2 36	2 3	2 8	2 6
69	3 2	3 12	3 2	3 6	3 4
121	4 3	4 0	4 2	4 4	4 3
235	5 5	5 44	5 3	5 1	5 12
23	6 1	6 8	6 2	6 16	6 9
37	7 4	7 40	7 3	7 10	7 10
19	8 6	8 28	8 3	8 36	8 yes
251	9 9	9 24	9 2	9 18	9 no
93	10 12	10 16	10 1	10 10	10 1

## Unit 15 Division: Dividing by 5 and 10

Set A	Set B	Set C	Set D	Set E	Set F
23	1 3	1 3	1 30	1 7	1 7
92	2 4	2 11	2 70	2 6	2 5
789	3 1	3 6	3 100	3 4	3 8
57	4 0	4 0	4 20	4 7	4 10
79	5 1	5 5	5 80	5 no	5 \$3
43	6 2	6 1	6 110	6 3	6 4
67	7 3	7 4	7 90	7 yes	7 7
98	8 4	8 9	8 10	8 1	8 6
101	9 0	9 12	9 40	9 4	9 10
86	10 2	10 2	10 120	10 3	10 8

## Unit 16 Fractions: Halves, quarters and parts of an amount

Set A	Set B	Set C	Set D	Set E	Set F
1 10	1 2	1 12	1 12	1 7	1 12
2 6	2 10	2 6	2 32	2 4	2 6
3 22	3 4	3 20	3 24	3 21	3 2
4 15	4 5	4 10	4 8	4 3	4 20
5 50	5 7	5 18	5 40	5 $\frac{1}{4}$	5 22
6 9	6 20	6 4	6 36	6 $\frac{1}{2}$	6 $\frac{1}{2}$
7 30	7 8	7 22	7 20	7 $\frac{1}{2}$	7 $\frac{1}{4}$
8 44	8 9	8 8	8 44	8 $\frac{1}{4}$	8 8
9 33	9 11	9 14	9 16	9 no	9 $\frac{1}{2}$
10 25	10 6	10 24	10 28	10 yes	10 $\frac{1}{4}$



# Answers

## Unit 17 Place value: Digit recognition

Set A	Set B	Set C	Set D	Set E	Set F
1 U	1 68	1 374	1 120	1 90	1 10
2 H	2 28	2 921	2 340	2 160	2 10
3 T	3 33	3 357	3 770	3 30	3 300
4 T	4 48	4 313	4 820	4 8	4 1
5 U	5 79	5 273	5 900	5 34	5 30
6 H	6 82	6 312	6 325	6 870	6 10
7 T	7 90	7 163	7 488	7 440	7 300
8 U	8 500	8 780	8 215	8 no	8 2000
9 U	9 200	9 800	9 899	9 yes	9 \$250
10 T	10 8	10 100	10 450	10 60	10 340

## Unit 18 Rounding off: Nearest 10 and 100

Set A	Set B	Set C	Set D	Set E	Set F
1 25	1 350	1 30	1 100	1 15	1 249
2 45	2 750	2 70	2 100	2 65	2 449
3 75	3 650	3 50	3 200	3 25	3 649
4 95	4 450	4 60	4 200	4 55	4 849
5 35	5 250	5 30	5 300	5 85	5 1049
6 15	6 550	6 120	6 800	6 105	6 1249
7 85	7 850	7 150	7 500	7 145	7 1549
8 125	8 950	8 140	8 900	8 245	8 1449
9 155	9 150	9 180	9 600	9 485	9 1349
10 195	10 1150	10 200	10 1000	10 545	10 2049

## Unit 19 Sequences: Finding missing terms

Set A	Set B	Set C	Set D	Set E	Set F
1 10	1 7	1 +4	1 14	1 50	1 -2
2 15	2 35	2 +5	2 20	2 30	2 -10
3 25	3 70	3 +10	3 80	3 20	3 -5
4 50	4 30	4 +3	4 40	4 16	4 -3
5 20	5 28	5 +2	5 15	5 24	5 -4
6 15	6 40	6 +5	6 68	6 58	6 -5
7 20	7 93	7 +10	7 78	7 57	7 -10
8 29	8 68	8 +4	8 34	8 19	8 -3
9 47	9 53	9 +3	9 29	9 68	9 -2
10 38	10 26	10 +2	10 45	10 19	10 -4

## Unit 20 Number strings

Set A	Set B	Set C	Set D	Set E	Set F
1 20	1 4	1 8	1 5	1 20	1 30 millimetres
2 20	2 4	2 12	2 10	2 21	2 \$2
3 27	3 0	3 20	3 1	3 19	3 60
4 23	4 2	4 40	4 5	4 no	4 7
5 25	5 0	5 27	5 2	5 10	5 30
6 29	6 2	6 100	6 5	6 1	6 9
7 30	7 1	7 16	7 11	7 40	7 32
8 30	8 2	8 100	8 2	8 18	8 8
9 27	9 1	9 24	9 2	9 yes	9 8
10 37	10 0	10 32	10 3	10 3	10 13

# Answers



## Unit 21 Length: Units and conversions

Set A	Set B	Set C	Set D	Set E	Set F
1 1	1 300	1 4	1 7000	1 5000	1 100
2 5	2 900	2 7	2 3000	2 3	2 9
3 8	3 400	3 3	3 8000	3 300	3 2
4 4	4 600	4 8	4 1000	4 8	4 400
5 9	5 1000	5 6	5 5000	5 8000	5 5
6 2	6 100	6 1	6 9000	6 2	6 1; 32
7 7	7 700	7 9	7 2000	7 500	7 800
8 10	8 200	8 5	8 4000	8 3	8 more
9 3	9 500	9 2	9 6000	9 800	9 no
10 6	10 800	10 10	10 10 000	10 600	10 220 cm

## Unit 22 Perimeter: Concept and missing sides

Set A	Set B	Set C	Set D	Set E	Set F
1 16 cm	1 7 cm	1 45 cm	1 9 cm	1 6 cm	1 11 metres
2 44 cm	2 10 cm	2 20 cm	2 3 cm	2 16 cm	2 300 metres
3 8 cm	3 2 cm	3 5 cm	3 6 cm	3 30 cm	3 false
4 28 cm	4 4 cm	4 30 cm	4 1 cm	4 20 cm	4 boundary
5 48 cm	5 8 cm	5 60 cm	5 12 cm	5 20 cm	5 23 cm
6 20 m	6 12 m	6 40 m	6 5 m	6 18 m	6 36 m
7 40 m	7 1 m	7 55 m	7 2 m	7 14 m	7 5
8 32 m	8 3 m	8 15 m	8 8 m	8 28 m	8 3 metres
9 24 m	9 9 m	9 20 m	9 11 m	9 24 m	9 30 metres
10 36 m	10 6 m	10 50 m	10 4 m	10 16 m	10 20 cm

## Unit 23 Mass: Units and conversions

Set A	Set B	Set C	Set D	Set E	Set F
1 4000 g	1 6 kg	1 grams	5 g	1 999 grams	1 2000
2 10 000 g	2 5 kg	2 grams	50 g	2 990 grams	2 500
3 7000 g	3 2 kg	3 kilograms	100 g	3 950 grams	3 200
4 6000 g	4 10 kg	4 grams	500 g	4 900 grams	4 2
5 3000 g	5 4 kg	5 kilograms	800 g	5 800 grams	5 more
6 5000 g	6 7 kg	6 kilograms	1000 g	6 500 grams	6 7000
7 9000 g	7 9 kg	7 grams	2 kg	7 100 grams	7 10
8 11 000 g	8 11 kg	8 kilograms	3 kg	8 50 grams	8 2
9 8000 g	9 8 kg	9 grams	5000 g	9 10 grams	9 5
10 1000 g	10 1 kg	10 kilograms	10 kg	10 1 gram	10 yes

## Unit 24 Capacity/volume: Units and conversions

Set A	Set B	Set C	Set D	Set E	Set F
1 9000 mL	1 7 L	1 millilitres	3 mL	1 999 mL	1 1000
2 10 000 mL	2 2 L	2 millilitres	30 mL	2 990 mL	2 500
3 5000 mL	3 11 L	3 litres	100 mL	3 950 mL	3 250
4 8000 mL	4 10 L	4 litres	300 mL	4 900 mL	4 5000
5 11 000 mL	5 3 L	5 millilitres	1000 mL	5 800 mL	5 3000
6 7000 mL	6 6 L	6 millilitres	2 L	6 500 mL	6 2000
7 4000 mL	7 9 L	7 millilitres	3000 mL	7 100 mL	7 5
8 3000 mL	8 5 L	8 millilitres	4 L	8 50 mL	8 4
9 6000 mL	9 4 L	9 litres	8000 mL	9 10 mL	9 4 glasses
10 1000 mL	10 1 L	10 litres	9 L	10 1 mL	10 10 box juices



## Unit 25 Time: Positions of the hands

Set A	Set B	Set C	Set D	Set E	Set F
1 4	1 20 past	1 3	1 7	1 5 minutes	1 8
2 2	2 20 to	2 8	2 8	2 35 minutes	2 12
3 3	3 25 past	3 5	3 8	3 20 minutes	3 10
4 5	4 5 to	4 10	4 7	4 55 minutes	4 10
5 1	5 5 past	5 6	5 7	5 25 minutes	5 11
6 10	6 10 past	6 11	6 7	6 15 minutes	6 12
7 7	7 25 to	7 1	7 8	7 45 minutes	7 15 minutes
8 11	8 10 to	8 4	8 8	8 10 minutes	8 12
9 9	9 15 past	9 9	9 8	9 30 minutes	9 5
10 8	10 15 to	10 2	10 7	10 40 minutes	10 3

## Unit 26 Time: Digital and analogue conversions

Set A	Set B	Set C	Set D	Set E	Set F
1 9:10	1 5 past 3	1 7:55	7:05	1 8:30	1 10 minutes
2 6:20	2 20 past 7	2 12:40	7:10	2 25 past 1	2 10 minutes
3 11:05	3 25 past 11	3 10:50	7:15	3 11:55	3 4:25
4 4:15	4 10 past 8	4 8:35	7:20	4 a quarter to 6	4 5 minutes
5 7:25	5 a quarter past 4	5 2:45	7:25	5 5:10	5 4:45
6 1:30	6 half past 1	6 5:50	7:30	6 10:15	6 5:45
7 8:10	7 20 past 12	7 8:45	8:00	7 8:10	7 15
8 12:20	8 a quarter past 2	8 6:35	8:10	8 25 to 4	8 20 minutes
9 5:15	9 5 past 6	9 11:40	8:25	9 10 to 10	9 25
10 3:05	10 25 past 9	10 4:55	8:30	10 3:35	10 20

## Unit 27 Time: Unit equivalences

Set A	Set B	Set C	Set D	Set E	Set F
1 60 seconds	1 7 days	1 summer	1 1 year	1 month	1 120 months
2 60 minutes	2 14 days	2 autumn	2 1 year	2 term	2 spring
3 600 seconds	3 70 days	3 autumn	3 1 week	3 seasons	3 autumn
4 600 minutes	4 28 days	4 autumn	4 1 month	4 30 seconds	4 fortnight
5 30 seconds	5 31 days	5 winter	5 1 semester	5 2	5 2
6 30 minutes	6 31 days	6 winter	6 1 fortnight	6 September	6 summer
7 120 seconds	7 31 days	7 winter	7 1 season	7 February	7 6 days
8 15 minutes	8 30 days	8 spring	8 1 minute	8 June	8 2 semesters
9 180 seconds	9 31 days	9 spring	9 1 hour	9 3 months	9 24
10 180 minutes	10 30 days	10 summer	10 winter	10 fortnight	10 520

## Unit 28 Money: Note and coins

Set A	Set B	Set C	Set D	Set E	Set F
1 20c	1 \$10	1 2	1 1	1 \$5 + 20c	1 60c
2 5c	2 \$20	2 2	2 2	2 \$5 + \$1 + 50c	2 \$3
3 50c	3 \$100	3 3	3 2	3 \$5 + \$2	3 \$20
4 \$2	4 \$5	4 3	4 2	4 \$5 + \$2 + \$1 + 10c	4 85c
5 10c	5 \$50	5 4	5 1	5 \$5 + \$2 + \$2 + 50c	5 \$3
6 50c	6 \$100	6 2	6 2	6 \$10 + \$1	6 \$3.85
7 \$2	7 \$5	7 3	7 2	7 \$10 + \$2 + 20c + 20c	7 50c and \$1
8 50c	8 \$100	8 2	8 4	8 \$10 + \$2 + \$2	8 12
9 \$1	9 \$5	9 2	9 4	9 \$10 + \$5 + 50c	9 20
10 50c	10 \$10	10 6	10 1	10 \$10 + \$5 + \$2 + \$1	10 10

# Answers

HOP

SKIP

SPLAT!

## Unit 29 Money: Amounts, and adding and giving change

Set A	Set B	Set C	Set D	Set E	Set F
1 50c	1 \$1	1 15c	1 1	1 \$1	1 \$1.50
2 80c	2 \$1.50	2 40c	2 1	2 \$2	2 2
3 90c	3 50c	3 35c	3 1	3 \$2 + \$1	3 90c
4 95c	4 10c	4 70c	4 2	4 \$2 + 50c	4 3
5 10c	5 \$1.90	5 80c	5 2	5 \$2 + \$2	5 45c
6 5c	6 \$1.95	6 \$2.50	6 1	6 \$2 + \$1 + 50c	6 3
7 20c	7 80c	7 \$3.50	7 2	7 \$2 + \$1 + 50c + 20c + 10c	7 75c
8 75c	8 \$1.10	8 \$4.20	8 2	8 \$2 + \$2 + 50c	8 50c + 20c + 5c
9 85c	9 \$1.80	9 \$2.15	9 3	9 \$2 + \$2 + 50c + 20c + 10c	9 \$4.90
10 70c	10 80c	10 \$3.20	10 4	10 \$2 + \$2 + 50c + 20c + 20c + 5c	10 \$2 + \$2 + 50c + 20c + 20c

## Unit 30 2D and 3D: Polygon and polyhedra properties

Set A	Set B	Set C	Set D	Set E	Set F
1 1	1 6	Answers will vary.	1 square	1 rectangular prism	1 1 edge
2 4	2 6		2 rectangle	2 sphere	2 30 sides
3 4	3 5		3 square	3 cube	3 sphere
4 4	4 1		4 square	4 cylinder	4 rectangular prism
5 1	5 3		5 triangle	5 sphere	5 cylinder
6 5	6 2		6 triangle	6 rectangular prism	6 8
7 6	7 8		7 rectangle	7 triangular prism	7 triangle
8 8	8 5		8 circle	8 rectangular prism	8 hexagon
9 10	9 4		9 rectangle	9 cylinder	9 roof
10 3	10 7		10 circle	10 rectangular prism	10 rectangular prism

## Unit 31 Chance: Concepts of likelihood

Set A	Set B	Set C	Set D	Set E	Set F
1 possible	1 unlikely	1 $\frac{1}{6}$	1 1	1 $\frac{1}{10}$	1 certain
2 impossible	2 unlikely	2 $\frac{1}{6}$	2 3	2 $\frac{2}{10}$	2 possible
3 possible	3 unlikely	3 $\frac{2}{6}$	3 5	3 $\frac{1}{10}$	3 possible
4 impossible	4 likely	4 $\frac{2}{6}$	4 7	4 $\frac{2}{10}$	4 impossible
5 certain	5 unlikely	5 $\frac{2}{6}$	5 10	5 $\frac{5}{10}$	5 $\frac{1}{6}$
6 possible	6 likely	6 $\frac{3}{6}$	6 11	6 $\frac{5}{10}$	6 $\frac{1}{10}$
7 possible	7 likely	7 $\frac{3}{6}$	7 25	7 $\frac{4}{10}$	7 $\frac{1}{2}$
8 certain	8 unlikely	8 $\frac{4}{6}$	8 50	8 $\frac{6}{10}$	8 impossible
9 impossible	9 likely	9 $\frac{5}{6}$	9 100	9 $\frac{9}{10}$	9 certain
10 impossible	10 likely	10 $\frac{5}{6}$	10 500	10 $\frac{9}{10}$	10 $\frac{0}{6}$

## Unit 32 Revision: All sorts

Set A	Set B	Set C	Set D	Set E	Set F
1 6	1 14	1 11	1 400 cm	1 10	1 13
2 27	2 24	2 4	2 8 m	2 25c	2 14
3 19	3 28	3 300	3 16 cm	3 20	3 5
4 36	4 35	4 30	4 2000	4 6	4 Thursday
5 3	5 90	5 11	5 7 kg	5 30	5 4
6 35	6 12	6 16	6 4000 mL	6 impossible	6 pentagons
7 45	7 4	7 16	7 5 past 11	7 impossible	7 300
8 25	8 11	8 36	8 30 days	8 certain	8 20
9 26	9 12	9 5	9 8	9 certain	9 100
10 23	10 8	10 1	10 3	10 possible	10 8



**Set C**

What do these numbers  
combine to make?

- 1 3 hundreds + 7 tens + 4 units
- 2 9 hundreds + 2 tens + 1 unit
- 3 5 tens + 3 hundreds + 7 units
- 4 3 units + 3 hundreds + 1 ten
- 5 3 units + 7 tens + 2 hundreds
- 6 3 hundreds + 2 units + 1 ten
- 7 6 tens + 3 units + 1 hundred
- 8 8 hundreds - 2 tens
- 9 2 hundreds  $\times$  4 =
- 10 (4 tens + 5 tens) + 10

**Set D**

What is the value  
of these numbers?

- 1 12 tens
- 2 34 tens
- 3 77 tens
- 4 82 tens
- 5 90 tens
- 6 32 tens + 5
- 7 48 tens + 8
- 8 22 tens - 5
- 9 90 tens - 1
- 10 40 tens + 5 tens

**Set F**

For review purposes only

- 1 How many 10-cent coins will I need to make \$1? \_\_\_\_
- 2 How many \$10 notes will I need to make \$100? \_\_\_\_
- 3 How many \$1 coins will I need to make \$300? \_\_\_\_
- 4 How many \$100 notes will I need to make \$100? \_\_\_\_
- 5 How many decades make 300 years? \_\_\_\_
- 6 How many centuries make a thousand years? \_\_\_\_
- 7 How many centimetres make 3 metres? \_\_\_\_
- 8 How many metres make 2 kilometres? \_\_\_\_
- 9 How much money would you have if you had five \$10 notes and two \$100 notes? \_\_\_\_
- 10 How many cents would you have if you had three \$1 coins and four 10 cent coins? \_\_\_\_

## Rounding off: Nearest 10 and 100

When numbers are rounded off, they are taken to the nearest 10 or to the nearest 100, depending on the question that has been asked. If a number is exactly halfway, it is taken up and not down. So 25 to the nearest 10 would equal 30; 650 to the nearest 100 would equal 700, and so on.

### Set A

What number is halfway between:



- 1 20 and 30
- 2 40 and 50
- 3 70 and 80
- 4 90 and 100
- 5 30 and 40
- 6 10 and 20
- 7 80 and 90
- 8 120 and 130
- 9 150 and 160
- 10 190 and 200

### Set B

What number is halfway between:

- 1 300 and 400
- 2 700 and 800
- 3 600 and 700
- 4 400 and 500
- 5 200 and 300
- 6 500 and 600
- 7 800 and 900
- 8 900 and 1000
- 9 100 and 200
- 10 1100 and 1200

CLAP CLAP



# Set C

Round these numbers to the nearest 10:

1	34	<input type="text"/>
2	67	<input type="text"/>
3	49	<input type="text"/>
4	55	<input type="text"/>
5	26	<input type="text"/>
6	123	<input type="text"/>
7	145	<input type="text"/>
8	137	<input type="text"/>
9	183	<input type="text"/>
10	195	<input type="text"/>

# Set D

Round these numbers to the nearest 100:

1	142	<input type="text"/>
2	149	<input type="text"/>
3	150	<input type="text"/>
4	237	<input type="text"/>
5	271	<input type="text"/>
6	750	<input type="text"/>
7	480	<input type="text"/>
8	881	<input type="text"/>
9	619	<input type="text"/>
10	951	<input type="text"/>

For review purposes only

What is the smallest number that, when rounded to the nearest 10, will equal:

# Set E

1	20	<input type="text"/>
2	70	<input type="text"/>
3	30	<input type="text"/>
4	60	<input type="text"/>
5	90	<input type="text"/>
6	110	<input type="text"/>
7	150	<input type="text"/>
8	250	<input type="text"/>
9	490	<input type="text"/>
10	550	<input type="text"/>

# Set F

What is the biggest number that, when rounded to the nearest 100, will equal:

1	200	<input type="text"/>
2	400	<input type="text"/>
3	600	<input type="text"/>
4	800	<input type="text"/>
5	1000	<input type="text"/>
6	1200	<input type="text"/>
7	1500	<input type="text"/>
8	1400	<input type="text"/>
9	1300	<input type="text"/>
10	2000	<input type="text"/>

## Sequences: Finding missing terms

Find the next term in these sequences:

A sequence

is a pattern usually including numbers, but sometimes letters, or even symbols. Each member of a sequence is called a term and each sequence's pattern is called a rule. So, the sequence 2, 4, 6, 8, ... has 6 as its 3rd term, and the rule of +2 (or the 2 times table, or even numbers).



Set A

- 1 2, 4, 6, 8, \_\_\_\_
- 2 3, 6, 9, 12, \_\_\_\_
- 3 5, 10, 15, 20, \_\_\_\_
- 4 10, 20, 30, 40, \_\_\_\_
- 5 4, 8, 12, 16, \_\_\_\_
- 6 7, 9, 11, 13, \_\_\_\_
- 7 8, 11, 14, 17, \_\_\_\_
- 8 9, 14, 19, 24, \_\_\_\_
- 9 7, 17, 27, 37, \_\_\_\_
- 10 22, 26, 30, 34, \_\_\_\_

For review purposes only

Set B

What is the missing term in these sequences?

- 1 1, 3, 5, \_\_\_\_, 9
- 2 20, 25, 30, \_\_\_\_, 40
- 3 40, 50, 60, \_\_\_\_, 80
- 4 21, 24, 27, \_\_\_\_, 33
- 5 16, 20, 24, \_\_\_\_, 32
- 6 34, 36, 38, \_\_\_\_, 42
- 7 78, 83, 88, \_\_\_\_, 98
- 8 38, 48, 58, \_\_\_\_, 78
- 9 41, 45, 49, \_\_\_\_, 57
- 10 17, 20, 23, \_\_\_\_, 29



## Set D

Find the next term in these sequences:

- 1 22, 20, 18, 16, \_\_\_\_
- 2 36, 32, 28, 24, \_\_\_\_
- 3 120, 110, 100, 90, \_\_\_\_
- 4 60, 55, 50, 45, \_\_\_\_
- 5 27, 24, 21, 18, \_\_\_\_
- 6 80, 77, 74, 71, \_\_\_\_
- 7 98, 93, 88, 83, \_\_\_\_
- 8 74, 64, 54, 44, \_\_\_\_
- 9 45, 41, 37, 33, \_\_\_\_
- 10 53, 51, 49, 47, \_\_\_\_

## Set C

What are the rules of these sequences?

- 1 4, 8, 12, 16, ... \_\_\_\_
- 2 45, 50, 55, ... \_\_\_\_
- 3 50, 60, 70, ... \_\_\_\_
- 4 9, 12, 15, ... \_\_\_\_
- 5 18, 20, 22, ... \_\_\_\_
- 6 7, 12, 17, ... \_\_\_\_
- 7 33, 43, 53, ... \_\_\_\_
- 8 15, 19, 23, ... \_\_\_\_
- 9 26, 29, 32, ... \_\_\_\_
- 10 87, 89, 91, ... \_\_\_\_

## Set E

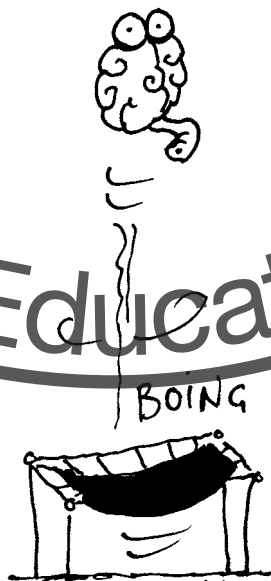
Find the missing terms in these sequences:

- 1 30, 40, \_\_\_\_, 60, 70
- 2 45, 40, 35, \_\_\_\_, 25
- 3 28, 24, \_\_\_\_, 16, 12
- 4 22, 20, 18, \_\_\_\_, 14
- 5 27, \_\_\_\_, 21, 18, 15
- 6 78, 68, \_\_\_\_, 48, 38
- 7 61, 59, \_\_\_\_, 55, 53
- 8 27, 23, \_\_\_\_, 15, 11
- 9 77, 74, 71, \_\_\_\_, 65
- 10 34, 29, 24, \_\_\_\_, 14

## Set F

What are the rules of these sequences?

- 1 22, 20, 18, 16, ...
- 2 90, 80, 70, 60, ...
- 3 45, 40, 35, 30, ...
- 4 21, 18, 15, 12, ...
- 5 36, 32, 28, 24, ...
- 6 73, 68, 63, 58, ...
- 7 93, 83, 73, 63, ...
- 8 31, 28, 25, 22, ...
- 9 19, 17, 15, 13, ...
- 10 51, 47, 43, 39, ...





# Unit 20 Number Strings

Number strings are lots of mini questions tied together to make a longer question. Work left to right to try and solve these tricky problems.

## Set A

- 1  $5 + 5 + 5 + 5 =$
- 2  $9 + 7 + 3 + 1 =$
- 3  $8 + 6 + 4 + 2 + 7 =$
- 4  $9 + 4 + 6 + 3 + 1 =$
- 5  $3 + 9 + 7 + 5 + 1 =$
- 6  $8 + 9 + 4 + 6 + 2 =$
- 7  $6 + 4 + 7 + 3 + 9 + 1 =$
- 8  $4 + 6 + 9 + 1 + 2 + 8 =$
- 9  $5 + 6 + 4 + 7 + 5 =$
- 10  $10 + 8 + 10 + 2 + 7 =$

## Set B

- 1  $10 - 2 - 2 - 2 =$
- 2  $9 - 1 - 1 - 3 =$
- 3  $8 - 1 - 3 - 4 =$
- 4  $10 - 5 - 2 - 1 =$
- 5  $8 - 6 - 1 - 1 =$
- 6  $6 - 1 - 1 - 2 =$
- 7  $9 - 6 - 1 - 1 =$
- 8  $10 - 3 - 3 - 2 =$
- 9  $10 - 2 - 3 - 4 =$
- 10  $7 - 5 - 1 - 1 =$

For review purposes only

## Set E

- 1 What is the sum of 4 and 6 and 9 and 1? \_\_\_\_
- 2 Find the total of 10 and 3 and 8 \_\_\_\_
- 3 What is 2 and 8 and 4 and 5 altogether? \_\_\_\_
- 4 Is 6 and 7 and 3 and 2 bigger than 20? \_\_\_\_
- 5 Take 3 and 7 and 5 and 5 away from 30 \_\_\_\_
- 6 What is the difference between 5 plus 5 and 3 plus 6? \_\_\_\_
- 7 Find the product of 2 and 5 and 2 and 2 \_\_\_\_
- 8 What is the answer to 3 multiplied by itself and then doubled? \_\_\_\_
- 9 Divide 20 by 2 and by 2 again. Is the answer 5? \_\_\_\_
- 10 Find the quotient of 30 and 5 and then divide this by 2 \_\_\_\_

## Set C

- 1  $2 \times 2 \times 2 =$
- 2  $3 \times 2 \times 2 =$
- 3  $5 \times 2 \times 2 =$
- 4  $10 \times 2 \times 2 =$
- 5  $3 \times 3 \times 3 =$
- 6  $10 \times 5 \times 2 =$
- 7  $4 \times 2 \times 2 =$
- 8  $5 \times 10 \times 2 =$
- 9  $2 \times 3 \times 4 =$
- 10  $4 \times 2 \times 1 \times 2 \times 2 =$

## Set D

- 1  $20 \div 2 \div 2 =$
- 2  $20 \div 2 \div 1 =$
- 3  $25 \div 5 \div 5 =$
- 4  $10 \div 2 \div 1 =$
- 5  $40 \div 5 \div 4 =$
- 6  $50 \div 10 \div 1 =$
- 7  $55 \div 5 \div 1 =$
- 8  $60 \div 10 \div 3 =$
- 9  $24 \div 3 \div 4 =$
- 10  $45 \div 5 \div 3 =$

## Set F

- 1 Here are the rainfall totals for this week in millimetres: Monday 6, Tuesday 9, Wednesday 4, Thursday 1 and Friday 10. How much rain fell this week? \_\_\_\_\_
- 2 I had \$10 in my purse and spent \$5 then \$2 then \$1. I then had \$\_\_\_\_\_ left.
- 3 In Aussie Rules, 6 points equals a goal. I kicked 5 goals last week and 5 goals this week. Altogether, my goals were worth \_\_\_\_\_ points for my team.
- 4 I gave half of my 24 stickers to Jessie and 5 more to Sam. I was left with \_\_\_\_\_ stickers.
- 5 Slugger Smedley is a fine batsman. He scored 4, 4, 4, 6, 6 and 6. He scored \_\_\_\_\_ runs altogether.
- 6 There are 20 children in my class but 5 were ill, 2 went to Music and 4 were on yard duty. At the moment, there are \_\_\_\_\_ children in the class.
- 7 My little sister is 4. I am twice as old as her, my big brother is twice as old as me, and my uncle is twice as old as my big brother. My uncle is \_\_\_\_\_ years old.
- 8 Mum cut my birthday cake in half, in half again and in half again. How many pieces of cake are there now? \_\_\_\_\_
- 9 My pet rabbit weighed 1 kilogram then doubled in size and doubled in size and doubled in size again. He now weighs \_\_\_\_\_ kilograms.
- 10 My 24 baby teeth are being replaced quickly. I lost 7 last year and 4 this year so far. How many baby teeth do I have left? \_\_\_\_\_

# Unit 21

## Length: Units and Conversions

Remember  
that there are 100  
centimetres in a  
metre and 1000 metres  
in a kilometre.

### Set A

- 1 100 cm =  m
- 2 500 cm =  m
- 3 800 cm =  m
- 4 400 cm =  m
- 5 900 cm =  m
- 6 200 cm =  m
- 7 700 cm =  m
- 8 1000 cm =  m
- 9 300 cm =  m
- 10 600 cm =  m

### Set B

- 1 3 m =  cm
- 2 9 m =  cm
- 3 4 m =  cm
- 4 6 m =  cm
- 5 10 m =  cm
- 6 1 m =  cm
- 7 7 m =  cm
- 8 2 m =  cm
- 9 5 m =  cm
- 10 8 m =  cm

For review purposes only

### Set C

- 1 How many metres in 5 kilometres? \_\_\_\_\_
- 2 How many kilometres equal 3000 metres? \_\_\_\_\_
- 3 3 metres is the same as \_\_\_\_\_ centimetres.
- 4 800 centimetres is the same as \_\_\_\_\_ metres.
- 5 How many metres in 8 kilometres? \_\_\_\_\_
- 6 How many kilometres equal 2000 metres? \_\_\_\_\_
- 7 5 metres is the same as \_\_\_\_\_ centimetres.
- 8 300 centimetres is the same as \_\_\_\_\_ metres.
- 9 5 metres and 3 metres equals \_\_\_\_\_ centimetres.
- 10 Take away 2 metres from 8 metres.  
This leaves \_\_\_\_\_ centimetres.



THIS WAY

Set C

- 1 4000 m =  km
- 2 7000 m =  km
- 3 3000 m =  km
- 4 8000 m =  km
- 5 6000 m =  km
- 6 1000 m =  km
- 7 9000 m =  km
- 8 5000 m =  km
- 9 2000 m =  km
- 10 10 000 m =  km

Set D

- 1 7 km =  m
- 2 3 km =  m
- 3 8 km =  m
- 4 1 km =  m
- 5 5 km =  m
- 6 9 km =  m
- 7 2 km =  m
- 8 4 km =  m
- 9 6 km =  m
- 10 10 km =  m

Set F

- 1 I jumped 3 metres. Sam jumped 4 metres. He jumped \_\_\_\_\_ centimetres more than me.
- 2 The world's long-jump record is 895 centimetres. This is about \_\_\_\_\_ metres.
- 3 High jumpers can clear over 200 centimetres. This is over \_\_\_\_\_ metres.
- 4 My bedroom is 4 metres long. This is \_\_\_\_\_ centimetres long.
- 5 My dog is 95 centimetres tall. He is \_\_\_\_\_ centimetres shorter than 1 metre.
- 6 My brother is 132 centimetres tall. He is \_\_\_\_\_ metres and \_\_\_\_\_ centimetres tall.
- 7 Dad's tape measure is 8 metres long. It can measure up to \_\_\_\_\_ centimetres in length.
- 8 Our local pool is 20 metres long. Is this more or less than 200 centimetres in length? \_\_\_\_\_
- 9 This pool is 1200 centimetres in width. Is this more than 120 metres in width? \_\_\_\_\_
- 10 Would this pool be 220 metres or 220 centimetres deep? \_\_\_\_\_

## Unit 22

## Perimeter: Concept and missing sides

The perimeter of a shape is the distance around its boundary or the sum of the lengths of its sides.

## Set A

Find the perimeters of squares with side lengths of:

- 1 4 cm
- 2 11 cm
- 3 2 cm
- 4 7 cm
- 5 12 cm
- 6 5 m
- 7 10 m
- 8 8 m
- 9 6 m
- 10 9 m

## Set B

What would the side lengths of a square be, if its perimeter was:

- 1 28 cm
- 2 40 cm
- 3 8 cm
- 4 16 cm
- 5 32 cm
- 6 48 m
- 7 4 m
- 8 12 m
- 9 36 m
- 10 24 m

For review purposes only

## Set E

Find the perimeters of these rectangles, given the following lengths (L) and widths (W):

- 1 L = 2 cm, W = 1 cm
- 2 L = 5 cm, W = 3 cm
- 3 L = 10 cm, W = 5 cm
- 4 L = 8 cm, W = 2 cm
- 5 L = 7 cm, W = 3 cm
- 6 L = 5 m, W = 4 m
- 7 L = 4 m, W = 3 m
- 8 L = 8 m, W = 6 m
- 9 L = 7 m, W = 5 m
- 10 L = 6 m, W = 2 m



# Set C

Find the perimeter of a regular pentagon with side lengths of:

- 1 9 cm
- 2 4 cm
- 3 1 cm
- 4 6 cm
- 5 12 cm
- 6 8 m
- 7 11 m
- 8 3 m
- 9 4 m
- 10 10 m

What would the side lengths of a regular pentagon be, if its perimeter was:

# Set D

- 1 45 cm
- 2 15 cm
- 3 30 cm
- 4 5 cm
- 5 60 cm
- 6 25 m
- 7 10 m
- 8 40 m
- 9 55 m
- 10 20 m

# Set F

- 1 A square has a perimeter of 44 metres. Its side lengths must be \_\_\_\_\_.
- 2 A paddock is 100 metres long and 50 metres wide. Its perimeter is \_\_\_\_\_.
- 3 Perimeter is measured in square units. True or false? \_\_\_\_\_.
- 4 Find a word starting with 'bou' that means the same as perimeter. \_\_\_\_\_.
- 5 Find the perimeter of a triangle with side lengths of 4 cm, 8 cm and 11 cm. \_\_\_\_\_.
- 6 An equilateral triangle has 3 equal side lengths. Find the perimeter of such a triangle with side lengths of 12 m. \_\_\_\_\_.
- 7 To find the perimeter of a regular pentagon, measure 1 side and then multiply by \_\_\_\_\_.
- 8 A regular pentagon has a perimeter of 15 metres. Its side lengths are \_\_\_\_\_.
- 9 Would the perimeter of a classroom be 30 metres or 30 square metres? \_\_\_\_\_.
- 10 There are 2 squares. 1 has side lengths of 5 cm, the other side lengths of 10 cm. Find the difference in the perimeters of the 2 squares. \_\_\_\_\_.

# Unit 23

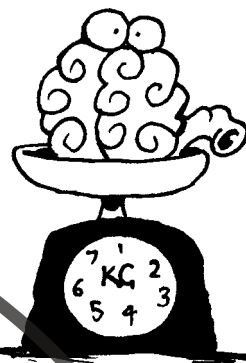
## Mass: Units and conversions

### Set A

Remember  
that all weights are  
based on the gram and  
that 1000 grams equals  
1 kilogram.

How many grams equal:

- |    |       |  |
|----|-------|--|
| 1  | 4 kg  |  |
| 2  | 10 kg |  |
| 3  | 7 kg  |  |
| 4  | 6 kg  |  |
| 5  | 3 kg  |  |
| 6  | 5 kg  |  |
| 7  | 9 kg  |  |
| 8  | 11 kg |  |
| 9  | 8 kg  |  |
| 10 | 1 kg  |  |



### Set B

Change these  
into kilograms:

- |    |          |  |
|----|----------|--|
| 1  | 6000 g   |  |
| 2  | 5000 g   |  |
| 3  | 2000 g   |  |
| 4  | 10 000 g |  |
| 5  | 4000 g   |  |
| 6  | 7000 g   |  |
| 7  | 9000 g   |  |
| 8  | 11 000 g |  |
| 9  | 3000 g   |  |
| 10 | 1000 g   |  |

For review purposes only

How far from a kilogram  
are the following masses?

### Set C

- |    |           |  |
|----|-----------|--|
| 1  | 1 gram    |  |
| 2  | 10 grams  |  |
| 3  | 50 grams  |  |
| 4  | 100 grams |  |
| 5  | 200 grams |  |
| 6  | 500 grams |  |
| 7  | 900 grams |  |
| 8  | 950 grams |  |
| 9  | 990 grams |  |
| 10 | 999 grams |  |



# Set C

Would it be more sensible to measure the mass of these items in grams or kilograms?

- 1 an apple \_\_\_\_\_
- 2 a ball \_\_\_\_\_
- 3 a brick \_\_\_\_\_
- 4 a block of butter \_\_\_\_\_
- 5 a dog \_\_\_\_\_
- 6 a length of timber \_\_\_\_\_
- 7 an onion \_\_\_\_\_
- 8 my sister \_\_\_\_\_
- 9 a doll \_\_\_\_\_
- 10 a car tyre \_\_\_\_\_

Put the following masses in order from lightest to heaviest:

50 g 10 kg 800 g 1000 g 3 kg  
500 g 5000 g 5 g 100 g 2 kg

# Set D

- Lightest 1 \_\_\_\_\_  
2 \_\_\_\_\_  
3 \_\_\_\_\_  
4 \_\_\_\_\_  
5 \_\_\_\_\_  
6 \_\_\_\_\_  
7 \_\_\_\_\_  
8 \_\_\_\_\_  
9 \_\_\_\_\_  
Heaviest 10 \_\_\_\_\_



# Set F

For review purposes only

- 1 This year I have put on 2 kilograms in weight. This is equal to \_\_\_\_\_ grams.
- 2 My pair of school shoes weighs 1 kilogram. Each shoe weighs \_\_\_\_\_ grams.
- 3 My drink bottle, when filled, weighs 800 grams. This is \_\_\_\_\_ grams away from a kilogram.
- 4 My rabbit, Monty, weighs 2000 grams. This equals \_\_\_\_\_ kilograms.
- 5 Monty's food comes in a box weighing 1200 grams. Is this more or less than a kilogram? \_\_\_\_\_
- 6 Monty's cage weighs 7 kilograms. This equals \_\_\_\_\_ grams.
- 7 Monty eats 100 grams of carrot a day. In \_\_\_\_\_ days he will eat a kilogram of carrots.
- 8 A can of cherries weighs 500 grams. \_\_\_\_\_ cans will weigh a kilogram.
- 9 A banana weighs 200 grams. \_\_\_\_\_ bananas will weigh a kilogram.
- 10 If you eat 200 grams of fibre a day, will you eat a kilogram of fibre in a week? \_\_\_\_\_

## Unit 24

## Capacity/Volume: Units and Conversions

## Set A

How many millilitres equal:

Remember  
that all capacities  
are based on the  
litre and that  
1000 millilitres  
equals 1 litre.

- |    |           |                      |
|----|-----------|----------------------|
| 1  | 9 litres  | <input type="text"/> |
| 2  | 10 litres | <input type="text"/> |
| 3  | 5 litres  | <input type="text"/> |
| 4  | 8 litres  | <input type="text"/> |
| 5  | 11 litres | <input type="text"/> |
| 6  | 7 litres  | <input type="text"/> |
| 7  | 4 litres  | <input type="text"/> |
| 8  | 3 litres  | <input type="text"/> |
| 9  | 6 litres  | <input type="text"/> |
| 10 | 1 litre   | <input type="text"/> |

## Set B

Change these into litres:

- |    |           |                      |
|----|-----------|----------------------|
| 1  | 7000 mL   | <input type="text"/> |
| 2  | 2000 mL   | <input type="text"/> |
| 3  | 11 000 mL | <input type="text"/> |
| 4  | 10 000 mL | <input type="text"/> |
| 5  | 3000 mL   | <input type="text"/> |
| 6  | 6000 mL   | <input type="text"/> |
| 7  | 9000 mL   | <input type="text"/> |
| 8  | 5000 mL   | <input type="text"/> |
| 9  | 4000 mL   | <input type="text"/> |
| 10 | 1000 mL   | <input type="text"/> |

How far from a litre  
are the following measures?

## Set C

- |    |                 |       |
|----|-----------------|-------|
| 1  | 1 millilitre    | _____ |
| 2  | 10 millilitres  | _____ |
| 3  | 50 millilitres  | _____ |
| 4  | 100 millilitres | _____ |
| 5  | 200 millilitres | _____ |
| 6  | 500 millilitres | _____ |
| 7  | 900 millilitres | _____ |
| 8  | 950 millilitres | _____ |
| 9  | 990 millilitres | _____ |
| 10 | 999 millilitres | _____ |



### Set C

Would it be more sensible to measure the volume of these items in millilitres or litres?

- 1 a box juice \_\_\_\_\_
- 2 a glass \_\_\_\_\_
- 3 a barrel \_\_\_\_\_
- 4 a petrol tank \_\_\_\_\_
- 5 a can of soup \_\_\_\_\_
- 6 a water bottle \_\_\_\_\_
- 7 a carton of cream \_\_\_\_\_
- 8 a shampoo bottle \_\_\_\_\_
- 9 a water tank \_\_\_\_\_
- 10 an orange juice carton \_\_\_\_\_

Put the following volumes in order from least to greatest:

30 mL 9 L 8000 mL 1000 mL 4 L  
300 mL 3000 mL 3 mL 100 mL 2L

### Set D

- Least 1 \_\_\_\_\_  
2 \_\_\_\_\_  
3 \_\_\_\_\_  
4 \_\_\_\_\_  
5 \_\_\_\_\_  
6 \_\_\_\_\_  
7 \_\_\_\_\_  
8 \_\_\_\_\_  
9 \_\_\_\_\_  
Greatest 10 \_\_\_\_\_



### Set F

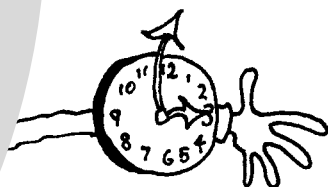
- 1 I used 1 litre of water to mix my playdough. This is equal to \_\_\_\_\_ millilitres of water.
- 2 My school drink bottle holds 500 millilitres. This is \_\_\_\_\_ millilitres short of a litre.
- 3 In my fridge is a 1250 millilitre bottle of cola. This is equal to 1 litre and \_\_\_\_\_ millilitres.
- 4 My bathroom sink holds 5 litres of water. This is equal to \_\_\_\_\_ millilitres.
- 5 This sink is currently filled up to 2 litres from the top. It now contains \_\_\_\_\_ millilitres of water.
- 6 How many more millilitres of water could I pour into this sink before it overflowed?  
\_\_\_\_\_
- 7 Our soup bowls hold 200 millilitres. How many bowls could I fill from a 1 litre can of soup? \_\_\_\_\_
- 8 How many 300 millilitre bottles of cream will be needed for a recipe requiring 1 litre of cream? \_\_\_\_\_
- 9 A drinking glass holds 250 millilitres. How many glasses could be filled from a litre bottle of cola? \_\_\_\_\_
- 10 How many 100 millilitre box juices will be needed to fill a 1 litre drink bottle? \_\_\_\_\_



# Unit 25

## Time: Positions of the hands

Remember that the long hand measures the minutes on a clock face and that each of the 12 numbers represents 5-minute intervals. Also remember that the short hand measures the hours.



### Set A

To which number does the big hand point when the time is:

- 1 20 past
- 2 10 past
- 3 a quarter past
- 4 25 past
- 5 5 past
- 6 10 minutes to
- 7 25 to
- 8 5 to
- 9 a quarter to
- 10 20 to

## For review purposes only

How many minutes away from the next hour will the time be if the big hand is on the:

### Set E

- 1 11
- 2 5
- 3 8
- 4 1
- 5 7
- 6 9
- 7 3
- 8 10
- 9 6
- 10 4

### Set D

How many minutes to or past the hour will it be when the big hand is pointing to the:

- |    |    |                      |
|----|----|----------------------|
| 1  | 4  | <input type="text"/> |
| 2  | 8  | <input type="text"/> |
| 3  | 5  | <input type="text"/> |
| 4  | 11 | <input type="text"/> |
| 5  | 1  | <input type="text"/> |
| 6  | 2  | <input type="text"/> |
| 7  | 7  | <input type="text"/> |
| 8  | 10 | <input type="text"/> |
| 9  | 3  | <input type="text"/> |
| 10 | 9  | <input type="text"/> |

Tick Tock



## Set C

To which number would the big hand point at:

- |    |      |                          |
|----|------|--------------------------|
| 1  | 8:15 | <input type="checkbox"/> |
| 2  | 8:40 | <input type="checkbox"/> |
| 3  | 8:25 | <input type="checkbox"/> |
| 4  | 8:50 | <input type="checkbox"/> |
| 5  | 8:30 | <input type="checkbox"/> |
| 6  | 8:55 | <input type="checkbox"/> |
| 7  | 8:05 | <input type="checkbox"/> |
| 8  | 8:20 | <input type="checkbox"/> |
| 9  | 8:45 | <input type="checkbox"/> |
| 10 | 8:10 | <input type="checkbox"/> |

## Set D

Would the hour hand be closer to the 7 or closer to the 8 when the time is:

- |    |      |                          |
|----|------|--------------------------|
| 1  | 7:10 | <input type="checkbox"/> |
| 2  | 7:40 | <input type="checkbox"/> |
| 3  | 7:55 | <input type="checkbox"/> |
| 4  | 7:05 | <input type="checkbox"/> |
| 5  | 7:25 | <input type="checkbox"/> |
| 6  | 7:15 | <input type="checkbox"/> |
| 7  | 7:35 | <input type="checkbox"/> |
| 8  | 7:50 | <input type="checkbox"/> |
| 9  | 7:45 | <input type="checkbox"/> |
| 10 | 7:20 | <input type="checkbox"/> |

## Set F

- 1 Our school day starts at 8:40, when the big hand is on the \_\_\_\_.
- 2 First lesson starts at 9 o'clock when the big hand is on the \_\_\_\_.
- 3 Art starts at 9:50 when the big hand is on the \_\_\_\_.
- 4 Art starts when the little hand is closest to the \_\_\_\_.
- 5 Recess starts at 10:30 and goes for 25 minutes. At the end of recess the minute hand is on the \_\_\_\_.
- 6 Music starts at 12:00. At 12:00 the 2 hands are on the \_\_\_\_.
- 7 Lunch finishes when the hour hand is near the 2 and the minute hand is on the 9. How far away from 2 o'clock is this? \_\_\_\_.
- 8 PE lasts for 30 minutes and starts at 2:30. At the end of PE the minute hand is on the \_\_\_\_.
- 9 The last bell for the school day rings at 3:25. At this time, the big hand is on the \_\_\_\_.
- 10 I get home after school at 4:15. At this time the minute hand is on the \_\_\_\_.

# Unit 26

## Time: Digital and analogue conversions

### Set A

Change these sweep-hand times into digital times:

Remember that an analogue or sweep-hand clock tells the time in minutes to or from the hour. A digital clock tells the time just in numbers.

- |   |                  |                      |    |                  |                      |
|---|------------------|----------------------|----|------------------|----------------------|
| 1 | 10 past 9        | <input type="text"/> | 6  | half past 1      | <input type="text"/> |
| 2 | 20 past 6        | <input type="text"/> | 7  | 10 past 8        | <input type="text"/> |
| 3 | 5 past 11        | <input type="text"/> | 8  | 20 past 12       | <input type="text"/> |
| 4 | a quarter past 4 | <input type="text"/> | 9  | a quarter past 5 | <input type="text"/> |
| 5 | 25 past 7        | <input type="text"/> | 10 | 5 past 3         | <input type="text"/> |

### Set B

Change these digital times into analogue times:

- |    |       |                      |
|----|-------|----------------------|
| 1  | 3:05  | <input type="text"/> |
| 2  | 7:20  | <input type="text"/> |
| 3  | 11:25 | <input type="text"/> |
| 4  | 8:10  | <input type="text"/> |
| 5  | 4:15  | <input type="text"/> |
| 6  | 1:30  | <input type="text"/> |
| 7  | 12:20 | <input type="text"/> |
| 8  | 2:15  | <input type="text"/> |
| 9  | 6:05  | <input type="text"/> |
| 10 | 9:25  | <input type="text"/> |

### Set E

Which time comes first?

- 20 to 9 or 8:30
- 1:30 or 25 past 1
- 11:55 or 12:05
- a quarter to 6 or a quarter past 6
- 5:10 or 10:05
- 10:15 or half past 10
- 8:10 or 20 past 8
- 4:40 or 25 to 4
- 9:55 or 10 to 10
- 3:35 or 20 to 4

Change these sweep-hand times into digital times:

- 1 5 to 8
- 2 20 to 1
- 3 10 to 11
- 4 25 to 9
- 5 a quarter to 3
- 6 10 to 6
- 7 a quarter to 9
- 8 25 to 7
- 9 20 to 12
- 10 5 to 5

Set C

Set D

Put these times in order.  
Answer in digital time:

a quarter past 7 8 o'clock half past 7 25 past 7  
8:30 7:10 8:25 20 past 7 7:05 8:10

Earliest time 1 \_\_\_\_\_

2 \_\_\_\_\_

3 \_\_\_\_\_

4 \_\_\_\_\_

5 \_\_\_\_\_

6 \_\_\_\_\_

7 \_\_\_\_\_

8 \_\_\_\_\_

9 \_\_\_\_\_

Latest time 10 \_\_\_\_\_

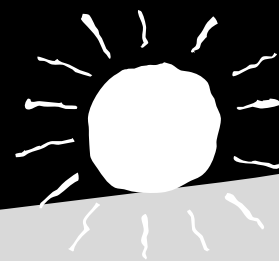


Set F

- 1 My footy match started at 2:50. How far away from 3 o'clock is this? \_\_\_\_\_
- 2 The footy match ended at 4:10. How long after 4 o'clock is this? \_\_\_\_\_
- 3 I left the ground a quarter of an hour after the match. I left at \_\_\_\_\_
- 4 How far away from 4:30 did I leave the ground? \_\_\_\_\_
- 5 I get home from the game at a quarter to 5. What did my digital clock look like at this time? \_\_\_\_\_
- 6 My favourite TV show starts at 5:15 and runs for 30 minutes. It ends at \_\_\_\_\_
- 7 Dinner usually starts at 5:55 and finishes at 10 past 6. Dinner takes \_\_\_\_\_ minutes to eat.
- 8 At 7 o'clock I like to read for about 40 minutes. How far from 8 o'clock do I stop reading? \_\_\_\_\_
- 9 At 8 o'clock I get ready for bed and I am usually asleep by 8:35. This is \_\_\_\_\_ minutes from 9 o'clock.
- 10 I normally wake up at about 7:40. This can be said to be \_\_\_\_\_ minutes to 8 o'clock.

## Unit 27

## Time: Unit equivalences



These questions deal with the way the year is divided up into many different units such as second, minute, hour, day, week, fortnight, month, term, season, semester and year. Do you know all of these units?

## Set A

Change each minute into seconds and each hour into minutes:

- 1 1 minute \_\_\_\_\_
- 2 1 hour \_\_\_\_\_
- 3 10 minutes \_\_\_\_\_
- 4 10 hours \_\_\_\_\_
- 5 half a minute \_\_\_\_\_
- 6 half an hour \_\_\_\_\_
- 7 2 minutes \_\_\_\_\_
- 8 a quarter of an hour \_\_\_\_\_
- 9 3 minutes \_\_\_\_\_
- 10 3 hours \_\_\_\_\_

## Set B

Change into days:

- 1 1 week \_\_\_\_\_
- 2 1 fortnight \_\_\_\_\_
- 3 10 weeks \_\_\_\_\_
- 4 2 fortnights \_\_\_\_\_
- 5 May \_\_\_\_\_
- 6 January \_\_\_\_\_
- 7 December \_\_\_\_\_
- 8 April \_\_\_\_\_
- 9 March \_\_\_\_\_
- 10 September \_\_\_\_\_

## Set E

- 1 What do we have 12 times a year? \_\_\_\_\_
- 2 What occurs 4 times a year at school? \_\_\_\_\_
- 3 The year is split up into 4 \_\_\_\_\_, each lasting 3 months.
- 4 Half a minute lasts for how many seconds? \_\_\_\_\_
- 5 A fortnight equals \_\_\_\_\_ weeks.
- 6 Spring starts with the month of \_\_\_\_\_.
- 7 Summer ends in the month of \_\_\_\_\_.
- 8 Winter begins in \_\_\_\_\_.
- 9 Autumn lasts for \_\_\_\_\_ months.
- 10 A \_\_\_\_\_ is longer than a week but shorter than a month.



**Set C**

In which seasons are these months?

- 1 February \_\_\_\_\_
- 2 March \_\_\_\_\_
- 3 April \_\_\_\_\_
- 4 May \_\_\_\_\_
- 5 June \_\_\_\_\_
- 6 July \_\_\_\_\_
- 7 August \_\_\_\_\_
- 8 October \_\_\_\_\_
- 9 November \_\_\_\_\_
- 10 December \_\_\_\_\_

**Set D**

What do these periods of time make?

- 1 365 days \_\_\_\_\_
- 2 12 months \_\_\_\_\_
- 3 7 days \_\_\_\_\_
- 4 28, 29, 30 or 31 days \_\_\_\_\_
- 5 2 terms \_\_\_\_\_
- 6 14 days \_\_\_\_\_
- 7 3 months \_\_\_\_\_
- 8 60 seconds \_\_\_\_\_
- 9 60 minutes \_\_\_\_\_
- 10 May, June, July \_\_\_\_\_

**Set F**

# For review purposes only

- 1 On my 10th birthday I will have lived for \_\_\_\_\_ months.
- 2 The footy finals are in September. This is in the season of \_\_\_\_\_.
- 3 ANZAC Day is in April in the season of \_\_\_\_\_.
- 4 The Olympics started on 14 August and ended on 28 August. They lasted for a \_\_\_\_\_.
- 5 The Olympics lasted for \_\_\_\_\_ weeks.
- 6 My birthday is in February. This is in the season of \_\_\_\_\_.
- 7 25 December is Christmas Day. This is \_\_\_\_\_ days before the end of the month.
- 8 Year 3 lasts for \_\_\_\_\_ semesters.
- 9 I am 9, my sister is 7 and we were born on the same day of the year. I am \_\_\_\_\_ months older than her.
- 10 When I am 10, I will have lived for \_\_\_\_\_ weeks.

# Unit 28 Money: Notes and coins

## Set A

Which coins feature:

Our money system uses the 5-, 10-, 20- and 50-cent coins, the \$1 and \$2 coins, the \$5, \$10, \$20, \$50 and \$100 notes.

- 1 a platypus ☐
- 2 an echidna ☐
- 3 the coat of arms ☐
- 4 an Aboriginal elder ☐
- 5 a lyre bird ☐
- 6 an emu ☐
- 7 a person on each side ☐
- 8 1 kangaroo ☐
- 9 a mob of kangaroos ☐
- 10 not a circle ☐

## Set E

Which notes and coins would be needed to make, as quickly as possible, these amounts of money:

- 1 \$5.20 \_\_\_\_\_
- 2 \$6.50 \_\_\_\_\_
- 3 \$7.00 \_\_\_\_\_
- 4 \$8.10 \_\_\_\_\_
- 5 \$9.50 \_\_\_\_\_
- 6 \$11.00 \_\_\_\_\_
- 7 \$12.40 \_\_\_\_\_
- 8 \$14.00 \_\_\_\_\_
- 9 \$15.50 \_\_\_\_\_
- 10 \$18.00 \_\_\_\_\_

## Set B

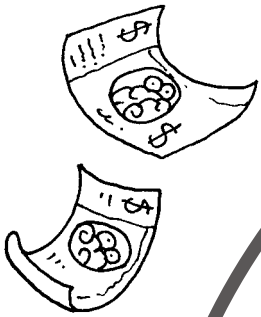
Find the right note:

- 1 mainly blue ☐
- 2 mainly orange ☐
- 3 mainly green ☐
- 4 mainly pink ☐
- 5 mainly golden ☐
- 6 the most valuable ☐
- 7 the cheapest ☐
- 8 the biggest ☐
- 9 the smallest ☐
- 10 10 needed to make the most expensive note ☐

# Set C

What is the smallest number of coins needed to make, as quickly as possible, these amounts of money:

- 1 30c ☐
- 2 60c ☐
- 3 45c ☐
- 4 80c ☐
- 5 95c ☐
- 6 \$1.20 ☐
- 7 \$1.55 ☐
- 8 \$2.50 ☐
- 9 \$4.00 ☐
- 10 \$4.85 ☐



# Set D

What is the smallest number of notes needed to make, as quickly as possible, these amounts of money:

- 1 \$10 ☐
- 2 \$15 ☐
- 3 \$25 ☐
- 4 \$30 ☐
- 5 \$50 ☐
- 6 \$60 ☐
- 7 \$70 ☐
- 8 \$85 ☐
- 9 \$95 ☐
- 10 \$100 ☐



For review purposes only

# Set F

- 1 I have 3 coins with a platypus on them. I have \_\_\_\_\_ cents.
- 2 If these 3 coins had a mob of kangaroos on them, I would have \_\_\_\_\_.
- 3 In my purse I have 4 of the cheapest note. I have \_\_\_\_\_ altogether.
- 4 If I had 1 of every silver coin, I would have \_\_\_\_\_.
- 5 If I had 1 of every gold coin, I would have \_\_\_\_\_.
- 6 If I had 1 of every coin, I would have \_\_\_\_\_.
- 7 Which 2 coins feature the kangaroo? \_\_\_\_\_
- 8 How many edges are on the 50c coin? \_\_\_\_\_
- 9 How many echidna coins make a dollar? \_\_\_\_\_
- 10 How many platypus coins make \$2? \_\_\_\_\_



# Unit 29 Money:

## Amounts, and adding and giving change

We need to be able to add and subtract money well to make sure we can shop effectively and to make sure we get the correct change when we buy things.

### Set A

What change from \$1 would I get if I spent:

- |    |     |                      |
|----|-----|----------------------|
| 1  | 50c | <input type="text"/> |
| 2  | 20c | <input type="text"/> |
| 3  | 10c | <input type="text"/> |
| 4  | 5c  | <input type="text"/> |
| 5  | 90c | <input type="text"/> |
| 6  | 95c | <input type="text"/> |
| 7  | 80c | <input type="text"/> |
| 8  | 25c | <input type="text"/> |
| 9  | 15c | <input type="text"/> |
| 10 | 30c | <input type="text"/> |



### Set B

What change from \$2 would I get if I spent:

- |    |        |                      |
|----|--------|----------------------|
| 1  | \$1    | <input type="text"/> |
| 2  | 50c    | <input type="text"/> |
| 3  | \$1.50 | <input type="text"/> |
| 4  | \$1.90 | <input type="text"/> |
| 5  | 10c    | <input type="text"/> |
| 6  | 5c     | <input type="text"/> |
| 7  | \$1.20 | <input type="text"/> |
| 8  | 90c    | <input type="text"/> |
| 9  | 20c    | <input type="text"/> |
| 10 | \$1.20 | <input type="text"/> |

For review purposes only

### Set E

What coins would I receive in change if I had \$5 and spent:

- |    |        |       |
|----|--------|-------|
| 1  | \$4    | _____ |
| 2  | \$3    | _____ |
| 3  | \$2    | _____ |
| 4  | \$2.50 | _____ |
| 5  | \$1    | _____ |
| 6  | \$1.50 | _____ |
| 7  | \$1.20 | _____ |
| 8  | 50c    | _____ |
| 9  | 20c    | _____ |
| 10 | 5c     | _____ |





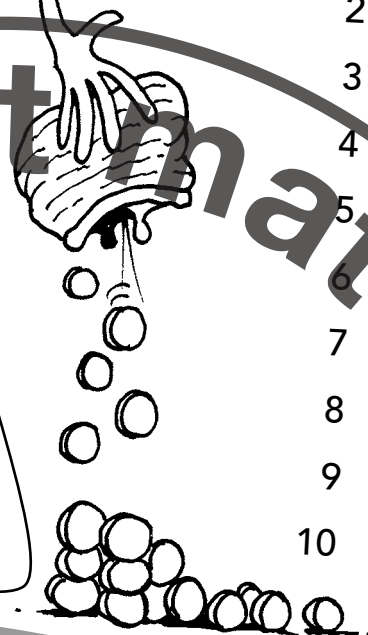
Add up the following coins:

- 1  $5c + 10c$
- 2  $20c + 20c$
- 3  $20c + 10c + 5c$
- 4  $50c + 20c$
- 5  $50c + 20c + 10c$
- 6  $\$2 + 50c$
- 7  $\$2 + \$1 + 50c$
- 8  $\$2 + \$2 + 20c$
- 9  $10c + 5c + \$2$
- 10  $50c + 50c + \$2 + 20c$

What is the smallest number of coins I would receive in change if I had \$2 and spent:

**Set D**

- 1  $\$1$
- 2  $\$1.50$
- 3  $\$1.80$
- 4  $\$1.85$
- 5  $\$1.40$
- 6  $\$1.95$
- 7  $50c$
- 8  $90c$
- 9  $40c$
- 10  $20c$



**Set 5** For review purposes only

- 1 If I had \$5 and spent \$3.50, my change would be \_\_\_\_\_.
- 2 This change should be in \_\_\_\_\_ coins.
- 3 If I had \$2 and spent \$1.10, my change would be \_\_\_\_\_.
- 4 This change should be in \_\_\_\_\_ coins.
- 5 If I had the coat of arms coin and spent 5c, my change would be \_\_\_\_\_.
- 6 This change should be in \_\_\_\_\_ coins.
- 7 If I had \$1 and spent 25c, my change would be \_\_\_\_\_.
- 8 The coins I should receive in my change would be \_\_\_\_\_.
- 9 If I had the mainly pink note and spent the lyre bird coin, my change would be \_\_\_\_\_.
- 10 The coins I should receive in my change would be \_\_\_\_\_.



# Unit 30 2D and 3D: Polygon and Polyhedra Properties

## Set A

Two-dimensional shapes, called *polygons*, are flat and can be drawn easily on a piece of paper. Polygon comes from Greek and means 'many corners'.

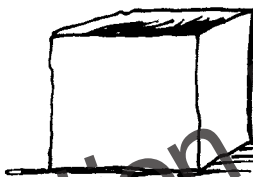
How many sides can be found on these polygons?

- |    |           |                          |
|----|-----------|--------------------------|
| 1  | circle    | <input type="checkbox"/> |
| 2  | square    | <input type="checkbox"/> |
| 3  | rectangle | <input type="checkbox"/> |
| 4  | rhombus   | <input type="checkbox"/> |
| 5  | oval      | <input type="checkbox"/> |
| 6  | pentagon  | <input type="checkbox"/> |
| 7  | hexagon   | <input type="checkbox"/> |
| 8  | octagon   | <input type="checkbox"/> |
| 9  | decagon   | <input type="checkbox"/> |
| 10 | triangle  | <input type="checkbox"/> |



For review purposes only

Which 2D polygons can be found in these 3D polyhedra?



## Set D

- cube: 1 \_\_\_\_\_
- rectangular prism: 2 \_\_\_\_\_ and 3 \_\_\_\_\_
- square pyramid: 4 \_\_\_\_\_ and 5 \_\_\_\_\_
- triangular prism: 6 \_\_\_\_\_ and 7 \_\_\_\_\_
- cylinder: 8 \_\_\_\_\_ and 9 \_\_\_\_\_
- cone: 10 \_\_\_\_\_



**Set B**

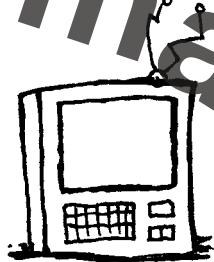
How many faces are on these polyhedra?

- 1 1 cube ☐
- 2 rectangular prism ☐
- 3 triangular prism ☐
- 4 sphere ☐
- 5 cylinder ☐
- 6 cone ☐
- 7 hexagonal prism ☐
- 8 square pyramid ☐
- 9 triangular pyramid ☐
- 10 hexagonal pyramid ☐

**Set C**

Find 10 examples of a rectangular prism in the room you are in now.

- 1 \_\_\_\_\_
- 2 \_\_\_\_\_
- 3 \_\_\_\_\_
- 4 \_\_\_\_\_
- 5 \_\_\_\_\_
- 6 \_\_\_\_\_
- 7 \_\_\_\_\_
- 8 \_\_\_\_\_
- 9 \_\_\_\_\_
- 10 \_\_\_\_\_

**Set E**

Name the polyhedra:

- 1 a cupboard \_\_\_\_\_
- 2 a tennis ball \_\_\_\_\_
- 3 a 6-sided die \_\_\_\_\_
- 4 a water pipe \_\_\_\_\_
- 5 a cricket ball \_\_\_\_\_
- 6 a tissue box \_\_\_\_\_
- 7 a 2-man tent \_\_\_\_\_
- 8 a city building \_\_\_\_\_
- 9 a pencil \_\_\_\_\_
- 10 a book \_\_\_\_\_

**Set F**

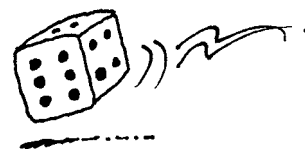
- 1 How many edges are on a cone? \_\_\_\_\_
- 2 How many sides are on 5 hexagons? \_\_\_\_\_
- 3 A ball is an example of a \_\_\_\_\_.
- 4 A brick is an example of a \_\_\_\_\_.
- 5 A toilet roll is an example of a \_\_\_\_\_.
- 6 A cube has \_\_\_\_\_ corners.
- 7 7 equal shapes. 21 sides in total. Each is a \_\_\_\_\_.
- 8 4 equal shapes. 24 corners in total. Each is a \_\_\_\_\_.
- 9 A triangular prism is like a house's \_\_\_\_\_.
- 10 2 cubes stuck together make a \_\_\_\_\_.

# Unit 31

## Chance: Concepts of likelihood

### Set A

Imagine you have a 6-sided die. Use the words 'possible', 'certain' or 'impossible' to describe the chance of rolling:



The likelihood of something happening is the chance of it occurring. This can be said in words such as 'possible' and 'certain'. It can also be said as a fraction, like  $\frac{3}{5}$ , which we read as '3 out of 5'.

- 1 a 2 \_\_\_\_\_
- 2 a 7 \_\_\_\_\_
- 3 an even number \_\_\_\_\_
- 4 a fraction \_\_\_\_\_
- 5 a number under 7 \_\_\_\_\_
- 6 an odd number \_\_\_\_\_
- 7 1, 2, 3, 4 or 5 \_\_\_\_\_
- 8 a whole number \_\_\_\_\_
- 9 a 2-digit number \_\_\_\_\_
- 10 a decimal \_\_\_\_\_

### Set D

If you tossed a coin the following number of times, how many heads do you think you might get?

1	2	<input type="text"/>
2	6	<input type="text"/>
3	10	<input type="text"/>
4	14	<input type="text"/>
5	20	<input type="text"/>
6	22	<input type="text"/>
7	50	<input type="text"/>
8	100	<input type="text"/>
9	200	<input type="text"/>
10	1000	<input type="text"/>

### Set E

You have a 10-sided die.

Answer as a fraction the chance of these results happening:

- 1 rolling a 10 \_\_\_\_\_
- 2 rolling a number bigger than 8 \_\_\_\_\_
- 3 rolling a 1 \_\_\_\_\_
- 4 rolling a 1 or a 10 \_\_\_\_\_
- 5 rolling an even number \_\_\_\_\_
- 6 rolling an odd number \_\_\_\_\_
- 7 rolling a 1, 2, 3 or 4 \_\_\_\_\_
- 8 rolling a 2, 4, 6, 8, 9 or 10 \_\_\_\_\_
- 9 rolling a number bigger than 1 \_\_\_\_\_
- 10 rolling a number smaller than 10 \_\_\_\_\_

**Set B**

With the same die, use the words 'likely' or 'unlikely' to describe the chance of rolling:

- 1 a 5 \_\_\_\_\_
- 2 a 6 \_\_\_\_\_
- 3 1 or 2 \_\_\_\_\_
- 4 1, 2, 3 or 4 \_\_\_\_\_
- 5 1 or 6 \_\_\_\_\_
- 6 2, 3, 5 or 6 \_\_\_\_\_
- 7 1, 3, 5 or 6 \_\_\_\_\_
- 8 3 or 4 \_\_\_\_\_
- 9 2, 3, 4, 5 or 6 \_\_\_\_\_
- 10 a number bigger than 2 \_\_\_\_\_

**Set C**

Answer as a fraction to show the chance of rolling these numbers on a 6-sided die:

- 1 2 \_\_\_\_\_
- 2 6 \_\_\_\_\_
- 3 2 or 4 \_\_\_\_\_
- 4 3 or 5 \_\_\_\_\_
- 5 1 or 6 \_\_\_\_\_
- 6 1, 2 or 3 \_\_\_\_\_
- 7 3, 4 or 6 \_\_\_\_\_
- 8 3, 4, 5 or 6 \_\_\_\_\_
- 9 1, 2, 3, 4 or 5 \_\_\_\_\_
- 10 2, 3, 4, 5 or 6 \_\_\_\_\_



For review purposes only

**Set F**

- 1 Describe the chance that tomorrow the sun will come up. \_\_\_\_\_
- 2 Describe the chance that it will rain in 3 days. \_\_\_\_\_
- 3 Describe the chance that I will catch a cold next month. \_\_\_\_\_
- 4 Describe the chance that the sun will rise in the west. \_\_\_\_\_
- 5 What is the chance of rolling a 4 with a 6-sided die? \_\_\_\_\_
- 6 What is the chance of rolling a 4 with a 10-sided die? \_\_\_\_\_
- 7 What is the chance of tossing a tail with a 20 cent coin? \_\_\_\_\_
- 8 Describe the chance of seeing an echidna on the 50 cent coin. \_\_\_\_\_
- 9 Describe the chance of seeing an echidna on the 5 cent coin. \_\_\_\_\_
- 10 What is the chance of rolling an 8 with a 6-sided die? \_\_\_\_\_

# Unit 32 Revision: All sorts

To finish the book,  
here are some revision  
questions that will  
cover all of the things  
you have worked  
through. Good luck!

## Set A

- 1  $10 = 4 + \square$
- 2  $17 + 10 = \square$
- 3  $8 + 11 = \square$
- 4  $27 + 9 = \square$
- 5  $10 - 7 = \square$
- 6  $45 - 10 = \square$
- 7  $56 - 11 = \square$
- 8  $34 - 9 = \square$
- 9 double 13  $\square$
- 10 halve 46  $\square$

## Set B

- 1  $7 \times 2 = \square$
- 2  $3 \times 8 = \square$
- 3  $4 \times 7 = \square$
- 4  $7 \times 5 = \square$
- 5  $9 \times 10 = \square$
- 6  $24 \div 2 = \square$
- 7  $12 \div 3 = \square$
- 8  $44 \div 4 = \square$
- 9  $60 \div 5 = \square$
- 10  $80 \div 10 = \square$

For review purposes only

## Set E

- 1 How many lyre bird coins equal a dollar? \_\_\_\_\_
- 2 What is my change from \$2 if I spend \$1.75? \_\_\_\_\_
- 3 2 dollars equals \_\_\_\_\_ 10 cent coins.
- 4 A sugar cube has \_\_\_\_\_ faces.
- 5 3 decagons have \_\_\_\_\_ corners.
- 6 The chance of rolling an 8 with a 6-sided die is \_\_\_\_\_.
- 7 The chance of the next number in the pattern 23, 25, 27, ... being 28 is \_\_\_\_\_.
- 8 The chance of 33 244 being even is \_\_\_\_\_.
- 9 The chance of a number in the 10 times table being even is \_\_\_\_\_.
- 10 The chance of me getting all 10 of these questions correct is \_\_\_\_\_.

6) BOING

27

FLIP

10

ZINC



Set C

- 1 half of 22
- 2 a quarter of 16
- 3 the value of the 3 in 347
- 4 round 34 to the nearest 10
- 5 2, 5, 8, , 14
- 6 1, 2, 4, 8,
- 7  $12 + 8 - 4 =$
- 8  $3 \times 4 \times 3 =$
- 9  $25 \div 5 \div 1 =$
- 10  $100 \div 10 \div 10 =$

Set D

- 1 4 m =  cm
- 2 800 cm =  m
- 3 the perimeter of a square with sides 4 cm
- 4 2 kg =  g
- 5 7000 g =  kg
- 6 4 litres =  mL
- 7 11:05 =  past
- 8 days in June
- 9 At 7:40 the big hand is on the
- 10 36 months =  years

For review purposes only

Set F

- 1 What is the 7th odd number?
- 2 What is the 7th even number?
- 3 Find the difference between  $2 \times 2$  and  $3 \times 3$ .
- 4 What day comes 5 days after Saturday?
- 5 How many coins equal \$3.30?
- 6 I have 7 equal shapes that have 35 sides altogether. They are .
- 7 Round 255 to the nearest 100.
- 8 How many of the cheapest silver coin equal the cheapest gold coin?
- 9 Find the product of 5 and 10 and 2.
- 10 How many times can 4 be taken away from 32?

# Glossary

<b>Add</b>	To group together
<b>Altogether</b>	The answer to an addition problem
<b>Analogue clock</b>	A sweep-hand clock
<b>Autumn</b>	March, April, May
<b>Bi</b>	A prefix meaning 2
<b>Centi</b>	A prefix meaning $\frac{1}{100}$
<b>Centimetre</b>	100th of a metre
<b>Deca</b>	A prefix meaning 10
<b>Decade</b>	A period of 10 years
<b>Decagon</b>	A 10-sided shape
<b>Difference</b>	How far one number is away from another number
<b>Divide</b>	To split up into equal pieces or to share
<b>Double</b>	To add a number onto itself
<b>Dozen</b>	12
<b>Edge</b>	A boundary
<b>Face</b>	A side of a 3D shape
<b>Gram</b>	The standard unit for mass
<b>Groups of</b>	Counting in lots
<b>Halve</b>	Divide into 2 equal parts
<b>Heptagon</b>	A shape with 7 sides
<b>Hexagon</b>	A shape with 6 sides
<b>Kilo</b>	A prefix meaning 1000
<b>Kilogram</b>	1000 grams
<b>Kilometre</b>	1000 metres
<b>Litre</b>	The standard unit of capacity
<b>Margin</b>	How far 2 numbers are apart
<b>Metre</b>	The standard unit of length
<b>Millilitre</b>	One thousandth of a litre
<b>Multiply</b>	Count groups
<b>Octa</b>	A prefix meaning 8
<b>Octagon</b>	A shape with 8 sides
<b>Penta</b>	A prefix meaning 5
<b>Pentagon</b>	A polygon with 5 sides
<b>Perimeter</b>	The length of the boundary of a shape

<b>Polygon</b>	A 2D shape with many corners
<b>Polyhedra</b>	A 3D shape with many faces
<b>Product</b>	The answer to a multiplication problem
<b>Quad</b>	A prefix meaning 4
<b>Quadrilateral</b>	A 4-sided shape
<b>Quadruple</b>	To multiply by 4
<b>Quotient</b>	The result of a division question
<b>Regular (shape)</b>	Having the same side lengths
<b>Remainder</b>	What is left over after a division sum has been completed
<b>Remove</b>	To take away
<b>Round</b>	To take a number to the nearest 10, 100, 1000 etc
<b>Rule</b>	The pattern in a sequence
<b>Sequence</b>	A number pattern
<b>Share</b>	To divide into equal pieces
<b>Solve</b>	To find the answer to a question
<b>Spring</b>	September, October, November
<b>Subtract</b>	Take away
<b>Sum</b>	The answer to an addition problem
<b>Summer</b>	December, January, February
<b>Term</b>	Each member of a sequence
<b>Times</b>	Groups of
<b>Total</b>	The answer to an addition problem
<b>Tri</b>	A prefix meaning 3
<b>Triple</b>	To multiply by 3
<b>Twice</b>	2 times, or to double
<b>Vertice</b>	The corner where lines meet on 2D or 3D shapes
<b>Winter</b>	June, July, August

First published in 2005 by



MACMILLAN EDUCATION AUSTRALIA PTY LTD  
45–19 Claremont Street, South Yarra 3141  
Reprinted 2006, 2007, 2008, 2009

Visit our website at [www.macmillan.com.au](http://www.macmillan.com.au)  
Associated companies and representatives throughout the world.  
Copyright © Peter Maher/Macmillan Education Australia 2005

Mighty Mentals: Book A  
ISBN 978 0 7329 9958 2

Edited by Sandra Balonyi  
Design by Trish Hayes and Stephen Michael King  
Illustrations by Stephen Michael King

Printed in Malaysia

**For review purposes only**



© Macmillan Education Australia

# Mighty Mentals

Building a strong foundation in MENTAL MATHS

**Mighty Mentals** is the only mental maths textbook series to purposefully and systematically teach mental computation skills. Through a clear scope and sequence, the focus is on developing students' automatic response.

The four books in the **Mighty Mentals** series provide a systematic and logical program featuring:

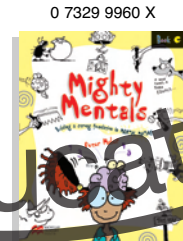
- ★ a unit of work focusing on a specific concept for each week
- ★ a tip or strategy for each unit to help students work through the exercises
- ★ handy maths facts and glossary pages
- ★ student progress and self-assessment chart
- ★ pull-out answer section in the middle.

Use alongside any general Maths textbook to add a strong mental computation component!



BOOK

	A	B	C	D
ACT	3	4	5	6
NSW	3	4	5	6
NT	4	5	6	7
QLD	4	5	6	7
SA	4	5	6	7
TAS	3	4	5	6
VIC	3	4	5	6
WA	4	5	6	7
NZ	4	5	6	7



CLAP CLAP

BRAVO

ISBN 978-0-7329-9958-2



9 780732 999582



MACMILLAN  
PRIMARY  
TEXTS

Inspiring great students