

Australian



Signpost

MATHS

Sample pages



Mentals

Introduction

Using the Mentals Books

Each unit of the Mentals Book is programmed to review content from the previous two units of the Student Book. For example, Mentals Book Unit 5 can be used to review Student Book Units 3 and 4 while Student Book Unit 5 is being taught. Unit 5 from both books should be completed in the same week.

Presentation

- The content of the strands Number and Algebra, Measurement and Geometry, and Statistics and Probability is covered thoroughly.
- Essential skills are explained.
- Language, graphs, problem solving and tables are given a high profile.
- Mathematics is applied to real-life situations wherever possible.

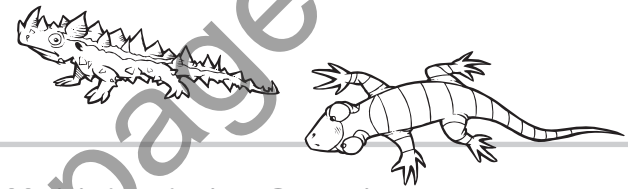
Mixed-topic Questions

The units present questions in a mixed-topic format.

- This is essential for thorough understanding and continuous review.
- It will allow the teacher to discover weaknesses that could otherwise pass unnoticed.
- The approach reflects real life – similar questions don't often occur together.
- It provides a real test of understanding.

If You Do Not Use a Student Book

This book will be invaluable to those who do not use a Student Book, as it ensures both thorough coverage and constant review of the syllabus content.



ID Cards

- The ID Cards on pages 4 and 5 review the terms essential to success in this course.
- These cards can be used over and over again to improve understanding.

You can't do the maths if you don't know the language!

Multiple-choice Questions

The multiple-choice questions on page 70 introduce a variety of question types.

- Three headers on each double-page spread provide an opportunity for discussion. Suggestions on how to use them in the classroom are given on page 3.

4:1 Draw more balls to make 8. $3 + 2 = \square$

4:2 Write the missing positions. $1^{st}, \square, 4^{th}$

4:3 Count the coloured squares and complete.

a	10 and 4 makes	b	10 and 1 makes
c	10 and 7 makes	d	10 and 9 makes
e	10 and 2 makes	f	10 and 5 makes

- Two lizards are hidden on each page for students to find.

- Cartoons make mathematics more appealing.

- The third section of each unit usually contains counting exercises in the border.



Unit Header Activities	3
ID Cards	4–5
Units of the Text	6–69
Multiple-choice Questions	70
Naming Numbers	71–75
How Would You Name the Lizards?	76
Answers	A1–A12 (middle pages)



Unit Header Activities

- | | | |
|--|--|---|
| 1:1 Count the tomatoes (Q2). | 1:2 Count the beetles. | 1:3 Count the strawberries. |
| 2:1 Count the scooters (Q5). | 2:2 Count the horses. | 2:3 Numbers 1–10 |
| 3:1 Count the tomatoes (Q12). | 3:2 Count the frogs. | 3:3 Position of animals |
| 4:1 $2 + 2 = 4$ (Q2, 10) | 4:2 $3 + 2 = 5$ | 4:3 Numbers 11–20 |
| 5:1 Circle the 1st car. Cross the last. | 5:2 Name shapes/Discuss pattern (Q1). | 5:3 $2 + 8$ |
| 6:1 Circle one half of the pictures (Q5). | 6:2 Colour half of each shape. | 6:3 $4 + 7$ |
| 7:1 10 take away 7 (Q5). | 7:2 Draw a line to show half (Q3). | 7:3 Say the time on the clocks. |
| 8:1 Discuss and complete the pattern. | 8:2 $8 - 2$ | 8:3 Double 2. |
| 9:1 3 and 2 makes 5 (Q2, 12) | 9:2 $10 + 4$ (Q2) | 9:3 Double 10 (Q1). |
| 10:1 Discuss heavy and light things (Q9). | 10:2 $4 + 5$ (Q1) | 10:3 Double 3. |
| 11:1 $5 + 4$ (Q1, 7) | 11:2 Count by 10s. | 11:3 Join the dots. |
| 12:1 How many squares in the pattern? | 12:2 Count the buttons by 1s or 2s. | 12:3 Name 2D shapes. Discuss pattern. |
| 13:1 $8 - 5$ (Q1, 8) | 13:2 Which of these objects roll? | 13:3 What is on the left? |
| 14:1 $8 - 3$ | 14:2 Numbers 1–6 | 14:3 Count on 4. $5 + 4$ |
| 15:1 How many sides/corners? | 15:2 Write the numbers modelled (Q2). | 15:3 $10 - 4$ |
| 16:1 Which holds the most? (Q2, 7) | 16:2 Write the number modelled (Q1). | 16:3 Write the numbers modelled. |
| 17:1 Ordinals and shapes (Q9) | 17:2 $3 + 7$ | 17:3 $10 + 10$ |
| 18:1 Discuss and complete the pattern. | 18:2 $6 - 3$ | 18:3 Write the numbers modelled. |
| 19:1 $3 + 5$ (Q2) | 19:2 Describe each object (Q1). | 19:3 2D shapes, $3 + 3 + 3$ |
| 20:1 Circle half of the toys (Q2). | 20:2 Full, half full, empty | 20:3 $9 - 4$ |
| 21:1 Number pattern (Q6, 7) | 21:2 $4 + 6$ | 21:3 Shade half of each shape. |
| 22:1 $7 - 5$ (Q1, 11) | 22:2 What numbers add to give 7? | 22:3 $3 + 3 + 3$ (3 groups of 3) |
| 23:1 Which objects can stack? | 23:2 Number pattern (Count by 10s.) | 23:3 Join the dots. (Count by 2s.) |
| 24:1 Discuss the patterns. | 24:2 $6 + 4$ (Q1) | 24:3 Join the dots. (Count by 2s.) |
| 25:1 Circle half of this collection. | 25:2 How many tens? | 25:3 Number pattern (Count by 10s.) |
| 26:1 $9 - 3$ (Q6) | 26:2 Months of the year (Q1, 3) | 26:3 How many dots on each dice? |
| 27:1 $6 + 3$ (Q2) | 27:2 Describe these 3D objects. | 27:3 What is the total on each domino? |
| 28:1 How many more on the right? | 28:2 $9 - 4$ | 28:3 Count by 2s to find the total. |
| 29:1 Describe the pattern. | 29:2 Months of the year (Q1) | 29:3 $10 - 3$ |
| 30:1 $6 - 3$ (Q1, 8) | 30:2 Discuss position. | 30:3 Complete the number patterns. |
| 31:1 How many more on the left? | 31:2 Months of the year | 31:3 $7 + 8$ |
| 32:1 Discuss the pattern. | 32:2 Circle the heavier sides. | 32:3 Describe the 2D shapes. |

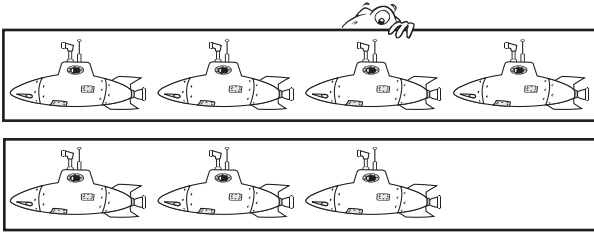




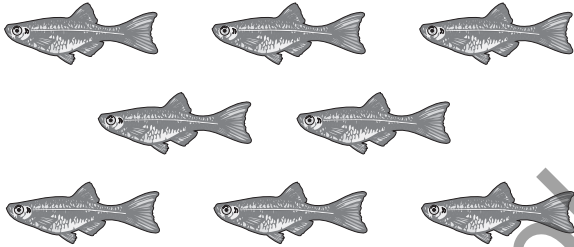
1 7 tomatoes. I ate 3.

How many are left? _____

2 How many altogether? _____



3 Eight fish, three swam away.



How many are left? _____

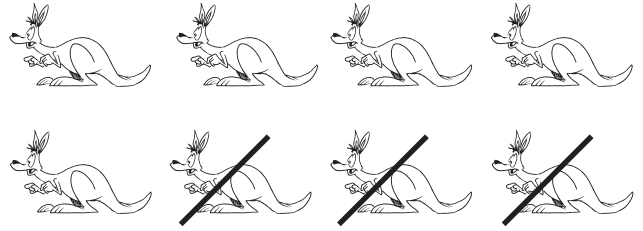
4 Finish this pattern.



1st, _____, _____, 4th, _____

6 16, _____, 18, _____, 20

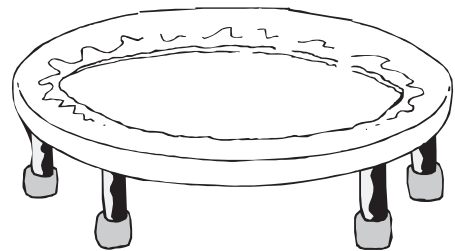
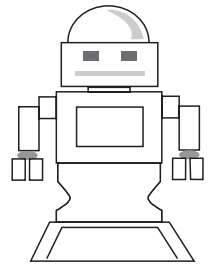
7



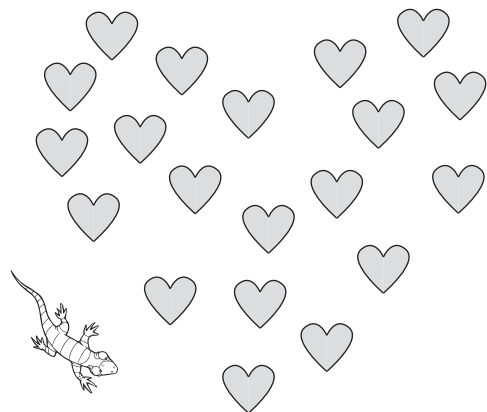
_____ take away _____

is equal to _____.

8 Colour one half of each picture.



9 Cross out 18 hearts.



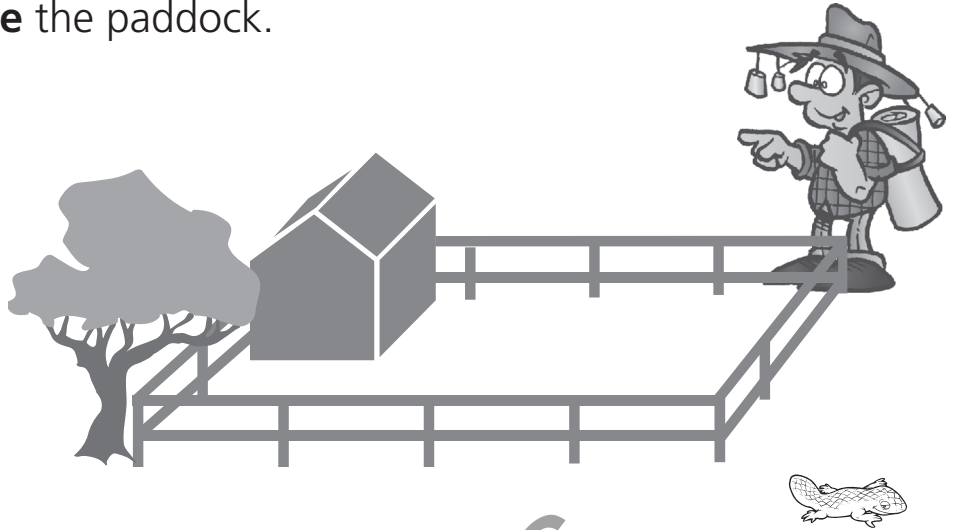
1:2



1 Draw one cow **inside** the paddock.

Draw two birds **above** the tree.

Draw a dog **next to** the tree.



2 Colour half of each shape.



3 Colour 3 red and 2 blue.

_____ fish

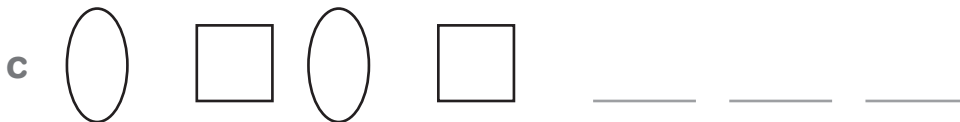
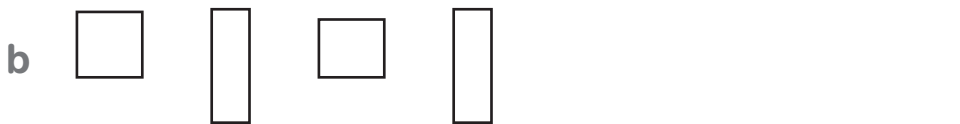
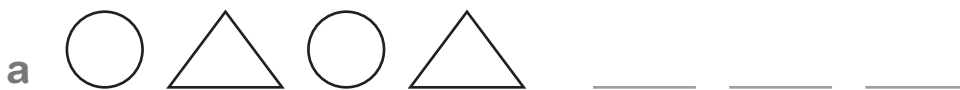


1:3



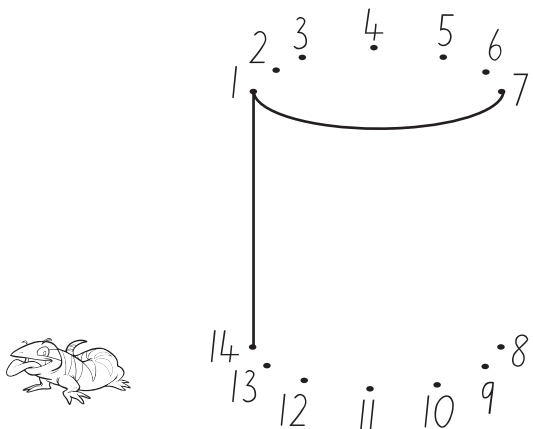
1 Complete each pattern.

How many birds?





1 Join the dots to finish the shape.

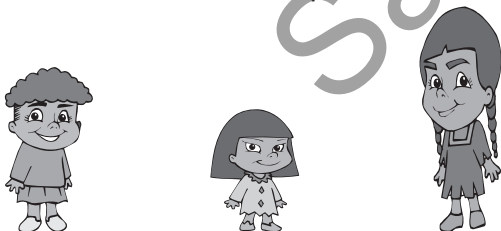


2 Write the number sentence.

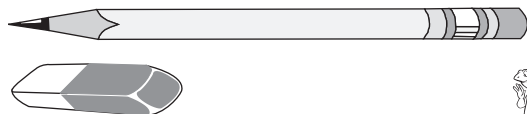


_____ + _____ = _____

3 Circle the shortest person.



4 How many erasers would be the same length as the pencil? _____



5 Draw a longer tail.



6 What coin is this?



7 Draw an oval.

8



There are _____ more circles than stars.

9



Brick

Flowers

The _____ is heavier than the _____.

10 What coin is this?



10:2



+ =

1 Marco's cars _____



Yuri's cars _____



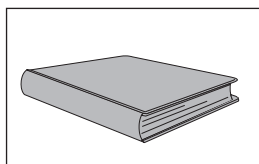
How many cars altogether? _____

How many more cars has Marco? _____ $9 - 4 =$ _____

2 $0 + 5 =$ _____ $7 + 3 =$ _____ $6 + 3 =$ _____ $4 + 3 =$ _____

$6 + 2 =$ _____ $5 + 5 =$ _____ $3 + 2 =$ _____ $2 + 8 =$ _____

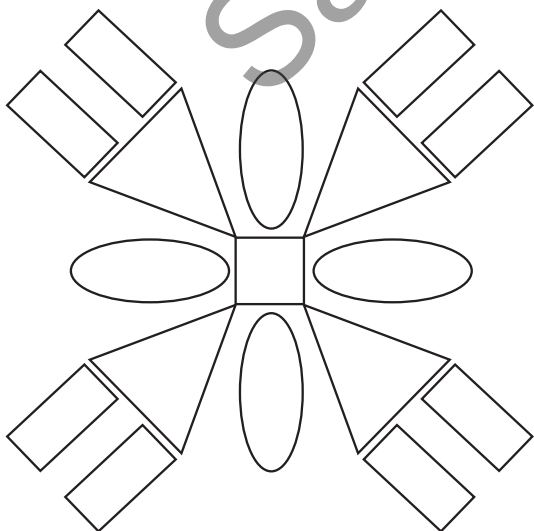
3 Circle the things that are lighter than the book.



10:3



double 3 =



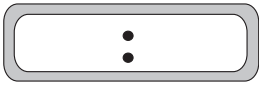
- 1 How many:
- a squares? _____
 - b rectangles? _____
 - c triangles? _____
 - d circles? _____
 - e ovals? _____

2 Colour the design using the same colour for each shape.

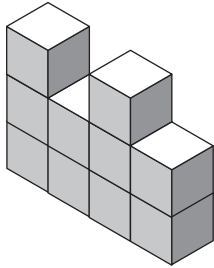




1 Write the digital time for half past 7.

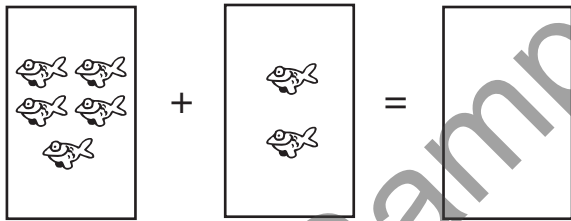


2 How many cubes? _____

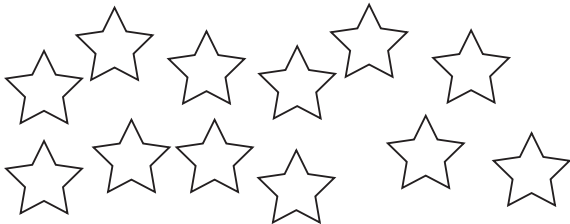


3 Lawson had 5 fish. He was given 2 more.

Now, he has _____.



4 Colour one half.



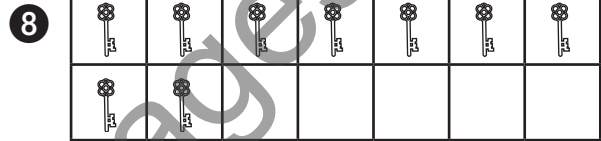
5 ○ ○ ○ 3 + 6 = _____

● ● ● 9 - 3 = _____

● ● ● 9 - 6 = _____

6 22 = _____ tens _____ ones

7 Circle the two shapes that fit together to make a pentagon.



9 + _____ = 14 14 - _____ = 9



10 take away 6 equals _____.

10 take away 3 equals _____.

10 take away 8 equals _____.

10 take away 5 equals _____.

10 Circle the larger number.

a 36 or 63

b 90 or 87

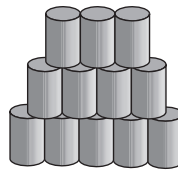
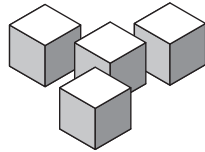
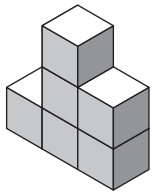
11 A bucket holds more than

a _____.

- 1 a How many months in one year? _____
- b What is the fifth month? _____
- c March is the _____ month.
- d What is the last month of the year? _____
- e What month comes after February? Circle. June / March



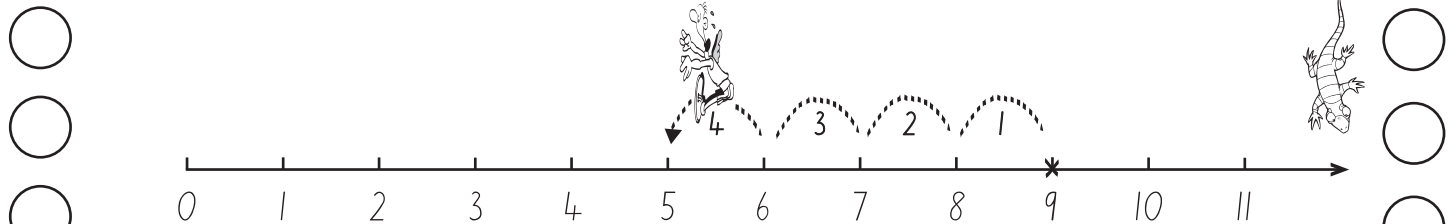
- 2 Circle the stacked objects and write how many in each group.



- 3 Colour the group of 3D objects on the left in Question 2 red.



- 1 Where do you finish? ○ ○ ○ ○



- a Start at 9, count backwards 4 = _____
- b Start at 9, count backwards 6 = _____
- c $9 - 3 = \underline{\quad}$ d $7 - 3 = \underline{\quad}$ e $8 - 4 = \underline{\quad}$ f $11 - 9 = \underline{\quad}$

- 2 Make a pattern by colouring these circles.



Naming Numbers 30–44

Trace, then write each name and its numeral.



thirty

30

thirty-one

31

thirty-two

32

thirty-three

33

thirty-four

34

thirty-five

35

thirty-six

36

thirty-seven

37

thirty-eight

38

thirty-nine

39

forty

40

forty-one

41

forty-two

42

forty-three

43

forty-four

44

Sample pages



Naming Numbers 45-59

Trace, then write each name and its numeral.



forty-five

45

forty-six

46

forty-seven

47

forty-eight

48

forty-nine

49

fifty



50

fifty-one

51

fifty-two

52

fifty-three

53

fifty-four

54

fifty-five

55

fifty-six

56

fifty-seven

57

fifty-eight

58

fifty-nine

59

Sample pages