## Australian



## 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.


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


## 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

These books are invaluable to those who do not use a student book, as they ensure both thorough coverage and constant review of the syllabus content.

## Multiple-choice Questions



The multiple-choice questions on page 76 introduce
variety of question types.

Three headers on each double-page spread provide an opportunity for discussion. Suggestions are given on page 3.


## ID Cards <br> 4-5

Units
6-75

## Multiple-choice Questions

76

## Answers

## A1-A12 (middle pages)

## Unit Header Activities

1:1 Addition, $10+2$ (Q5)
2:1 Cut each item in half (Q1).
3:1 Position, 3rd from the left (Q4)
4:1 Colour half of this group
5:1 Subtraction, 8 - 2 (Q1)
6:1 Subtraction, 8-5
7:1 Counting by 5 s
8:1 Digital time, o'clock
9:1 2 groups of $4(Q 6)$
10:1 Subtraction, 7 - 3 (Q5, 10)
11:1 Multiplication, $4 \times 2$ (Q1)
12:1 Doubles (Q6)
13:1 Addition, $6+7$ (Q1)
14:1 Circle half of the group.
15:1 Multiplication, $3 \times 4$ (Q6)
16:1 Multiplication, $3 \times 3$
17:1 Multiplication, 3 groups of 4
18:1 Adding multiples of 10 (Q8)
19:1 Subtraction, 9 - $3(\mathrm{Q} 2)$
20:1 Estimate how many
21:1 Money: recognising coins (Q3)
22:1 Division, 3 groups of 8 (Q5)
23:1 3D shapes: edges, corners?
24:1 Multiplication, $3 \times 3$ (Q1, 4)
25:1 Subtraction, $13-4(\mathrm{Q} 2)$
26:1 Subtraction, 10 - 3
27:1 Multiplication, $3 \times 3(\mathrm{Q} 1,6)$
28:1 Multiplication, $4 \times 2(\mathrm{Q} 1)$
29:1 Counting on from 127
30:1 Multiplication, $5 \times 3(\mathrm{Q} 3)$
31:1 Addition, $8+6$
32:1 Division $12 \div 2$ (Q1)
33:1 Multiplication, $3 \times 4(\mathrm{Q} 4)$
34:1 Addition, $9+4$ (Q4)
35:1 Multiplication, $5 \times 2(\mathrm{Q} 3)$

1:2 Combinations to $10(\mathrm{Q} 1)$
2:2 Subtraction from $10(\mathrm{Q} 1)$
3:2 Addition, 5 + 5 (Q2)
4:2 Time: o'clock (Q2)
5:2 Addition, $10+2$
6:2 Weekdays
7:2 Subtraction: difference (Q2)
8:2 4 groups of $3(Q 1,2)$
9:2 Colour one quarter.
10:2 Ordinal numbers
11:2 3 groups of 3 (Q3)
12:2 Subtraction, 10-4
13:2 3 groups of 3
14:2 4 groups of 3
15:2 What is on the right/left?
16:2 10 shared by 5 (Q1)
17:2 3 groups of $4(\mathrm{Q} 2)$
18:2 Months of the year
19:2 Position, 5th, 12th
20:2 Multiplication, $2 \times 4$
21:2 2 groups of 3
22:2 Multiplication, $5 \times 3$
23:2 Discussion of 3D objects (Q1)
24:2 3D objects: edges, corners?
25:2 Money: value of coins
26:2 Counting by $2 \mathrm{~s}, 14$ lots of 2
27:2 Tallies
28:2 Multiplication, $3 \times 2(\mathrm{Q} 1)$
29:2 Grouping, 2s in 12
30:2 Position: 5th, 12th (Q2)
31:2 Groups of 5, ordinals
32:2 Flip, slide, turn
33:2 Fraction shaded?
34:2 Multiplication, $4 \times 2$
35:2 Left, right and middle

1:3 Counting
2:3 Circle the parallel lines.
3:3 Addition, $5+4$
4:3 Counting by 5 s
5:3 Counting on, $7+3$
6:3 Patterns on a number line
7:3 Addition, $9+6+3$
8:3 Circle half of the shapes.
9:3 Halves
10:3 2D shapes
11:3 Money: notes
12:3 Addition, $3+3+7$
13:3 Subtraction, $10-6-2$
14:3 Trapeziums and kites
15:3 Digital time
16:3 How many groups of 2 ?
17:3 Number line addition
18:3 3 groups of 8
19:3 Playing card suits, $4+4+4$
20:3 6 groups of 4
21:3 Addition, $5+5+5+5$
22:3 Multiplication, $3 \times 8$
23:3 Pattern of 2D shapes
24:3 3D objects (face, corners, edges)
25:3 Comparing mass
26:3 Analogue time
27:3 Identifying and adding coins
28:3 Addition, $10+10$
29:3 Identifying and adding coins
30:3 Adding amounts of money
31:3 Money: \$5, \$10, \$20
32:3 $3+5,5+3,8-3,8-5$
33:3 Flip, slide, slide, turn
34:3 Fractions of a whole
35:3 2D shapes

# 3:1 <br> 8 <br> $\square$ 

1

 8 - $\qquad$ $=$ $\qquad$
(2) On this clock show 7 o'clock.

(3) Circle one half of the group.


4 Cross out the 9th flower.

(5)

| 5 | 1 | 3 |
| ---: | ---: | ---: |
| +3 |  |  |
| - | +6 | +7 |

(6)


John


Jim


José

Who is in themiddle?
(7) Drawapair
ofparállel lines.

8 What is the time on each clock?

half past $\qquad$

half past
$\qquad$
(9) Complete each number web.

$3: 2$

(1) Colour half of each group of shapes.
a $\square \square \square \square$

| b ○○○○○ |
| :--- |
| $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ |

c $\triangle \nabla \triangle \nabla \triangle \nabla$
(2)

| 5 | 8 | 6 |
| ---: | ---: | ---: |
| +2 | +2 |  |


| 4 | 4 |
| ---: | ---: |
| +5 |  |

(3) Name the shapes used in the picture.
$\qquad$

(4) Draw a girl inside the house.

Draw a cat near the house
 Estimate how many:
a cups of milk are in a milk carton.
b cartons of milk would fill a bucket.
c cups of milk would fill a bucket.
eve
How many cartons of milk would fill a
bucket if a carton holds 4 cups of milk
and 40 cups of milk fill a bucket?
(1) Continue this pattern.

$$
40,45,50,
$$

$\qquad$ , $\qquad$
(2) How many sides on each shape?

$\qquad$
$\qquad$
$\qquad$
Draw 2 lines to cut each shape in quarters.
Colour one quarter of each.
(3) $9-3=$ $\qquad$ $7-4=$ $\qquad$
(4) Circle the object you would use to fill a bucket.

(9) $2,4,6, \ldots, 10, \ldots, 14$
(6) Name each coin.

$\qquad$
$\qquad$
(7) Circle the shatpes you can stack.


8 A


B
C
D


Which holds the most?
$\qquad$
(9) Show the time on each clock.

b


1 o'clock
9:00
$6: 00$
$1: 00$
（1）Write the number one more than： 67 $7 \quad 49$ $\qquad$ 60
（2）Show the times on these clocks：


## $4: 330,35,40,45,50,55,60$ ，


（1）a Count backwards by twos from 100 ．


迹为

## Multiple-choice Questions

Colour the oval next to the correct answer.

A What is the number that is one more than 40?
50
39
$\bigcirc 31$
$\bigcirc 41$

B Which of these shapes is a square?


C Ice-blocks cost 50c each.
 How many can be bought for \$1.00?


D These balloons show:


3 groups of 3
4 groups of 3
3 groups of 4
4 groups of 4
E $19-4=$ ?
$\bigcirc 23$
16
$\bigcirc 15$
$\bigcirc 14$

F Which of these is less than 10 ?
$\bigcirc 16$
$\bigcirc 6$
$\bigcirc 19$
$\bigcirc 21$

G The cloud is:

below the bird
above the bird
to the right of the bird
$\bigcirc$ to the left of the bird
H Which number has a 2 in the tens place?


Which shape covers the largest area?
$\bigcirc$
A
OC
$\bigcirc B$
OD

J Sue had 5 lollies. She was given 6 more.
How many lollies does she have altogether?
$\bigcirc 56$
10
○ 65
$\bigcirc 11$

