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## Introduction

#### **Using the Mentals Books**

Each unit of the Mentals Book is programmed to review Student Book content for the previous two weeks (based on the Suggested Program in the Teacher's Book). For example, Unit 15 of the Mentals Book can be set as homework to review weeks 13 and 14 of the Student Book while week 15 is being taught.

#### **Presentation**

- The content of the strands Number and Algebra, Measurement and Geometry, and Statistics and Probability is covered thoroughly.
- Essential skills are explained.
- Language, problem solving, graphs and tables are given a high profile.
- Mathematics is applied to real-life situations wherever possible.
- The Arithmetic Card (page 5) is an exciting teaching tool for practising basic number skills.
- **ID Cards** (pages 6 and 7) review the terms essential to success in the course.
- Measurement standards and examples (pages 8 and 9) are provided so that students can estimate effectively.

### **Mixed-topic Questions**

The units present questions in a mixed-topic format.

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

#### **Graded Questions**

- Column 1: easier
- Columns 2 and 3: harder
- Column 4: Extension and Challenge

#### **Motivation**

- Cartoons make mathematics more appealing.
- There are two lizards hidden on each page for students to find.



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Problem-solving strategies are introduced in a carefully planned sequence throughout the series.

**Extra Activities** 

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Time

Important concepts from Number and Algebra and Measurement and Geometry are explored.

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- Measurement concepts and activities are introduced and investigated.
- Statistics and **Probability** concepts are presented for revision and extension.



- A tables program for each of addition, subtraction and multiplication is included.
- It is important for students to try to learn addition and multiplication tables by heart.

Arithmetic Card	5
ID Cards	5-7
Tables of Number and Measurement	8
Examples of Measurements	9

#### Units 10-83

How Would You Name the Lizards? 84

Answers

A1-A12 (middle pages)



# **Unit Activities**

Unit	Content	Extra Activity	Unit	Content	Extra Activity
1:1/2	+ 1, -1	+/- tables	20:1/2	Chance	Chance
1:3/4	Personal measures	Measure	20:3/4	Language	ID Card A
2:1/2	Australian money	Concept	21:1/2	13 –, 14 –	— tables
2:3/4	Looking for tens	Concept	21:3/4	Time in minutes	Measure
3:1/2	Australian money	Concept	22:1/2	+ 8, + 9	+ tables
3:3/4	+ 1, -1	+/- tables	22:3/4	Addition grid	+ tables
4:1/2	Time	Measure	23:1/2	× 5	× tables
4:3/4	Chance	Chance	23:3/4	Perimeter	Measure
5:1/2	Skip counting	× tables	24:1/2	– 10, – 10	— tables
5:3/4	Language	ID Card B	24:3/4	Rounding (nearest 100)	Concept
6:1/2	$\times$ 2, $\times$ 4	× tables	25:1/2	24 +, 32 +	+ tables
6:3/4	Problem solving	Strategy time	25:3/4	Language	ID Card B
7:1/2	Rows of, groups of	× tables	<b>26:</b> 1/2	15 -, 16 -	— tables
7:3/4	Skip counting	× tables	26:3/4	Linking + and -	Concept
8:1/2	+ 2, + 3	+ tables	27:1/2	+ 3, + 5	+ tables
8:3/4	Subtracting 9	Concept	27:3/4	Rounding (nearest 10)	Concept
9:1/2	× 10	× tables	28:1/2	+ 4, + 6	+ tables
9:3/4	× 5	× tables	28:3/4	Using number lines	— tables
10:1/2	$\times$ 5, $\times$ 0	× tables	29:1/2	- 2, - 4	<ul><li>tables</li><li>tables</li></ul>
10:3/4	Language	ID Card B	29:3/4	+ 7, + 9	
11:1/2	+ 3, + 4	+ tables	30:1/2	Chance	Chance
11:3/4	Lots of, groups of	Concept	30:3/4	Language	ID Card A
12:1/2	× 3	× tables	31:1/2	Writing fractions	Concept
12:3/4	7 -, 8 -	— tables	31:3/4	Near doubling	Concept
13:1/2	11 -, 12 -	<ul> <li>tables</li> <li>× tables</li> </ul>	32:1/2	Chance	Chance
13:3/4	× 3		32:3/4	Fractions	Concept
14:1/2	Chance	Chance	33:1/2	Subtraction	Concept
14:3/4	Adding with blocks	Concept	33:3/4	Language	ID Card B
15:1/2	$\times$ 1, $\times$ 10	× tables	34:1/2	Problem solving	Strategy time
15:3/4	Language	ID Card B	34:3/4	Linking + and –	Concept
16:1/2	+ 5	+ tables	35:1/2	+ 8	+ tables
16:3/4	Roman numerals	Concept	35:3/4	Language	ID Card A
17:1/2	+ 6, + 7	+ tables	36:1/2	Language	ID Card A
17:3/4	Combinations to 10 & 13	Concept	36:3/4	Problem solving	Strategy time
18:1/2	Chance	Chance	37:1/2	Rounding (nearest 5)	Concept
18:3/4	13 —, 14 —	— tables	37:3/4	Personal measures	Measure
19:1/2 19:3/4	Chance + 10, + 10	Chance + tables	Answers	These can be found in the mide this book on pages A1 to A12.	dle of

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10:3		out of 14	10:4	out of 6
1 13	2 12	3 14	<b>1</b> 69, 89, 109,	
+ 4	+ 3	+ 5	2 Which is larger, 3	× 5 or 8 + 8?
			<b>3</b> 40c + 40c + 50c	
<b>4</b> 635, 640,	645,,		4 I came 1st in a rac	e out of 8.
5 Is the widt	th of an elephan	t	How many came:	
about 2 m	etres?		<b>a</b> In front of me?	
6 18 metres	minus 9 metres.		<b>G</b> Lwill give Li two o	f these
<b>7</b> Use the ju	mp strategy to fi	ind 26 + 35.	toys. How many d	ifferent 🔊
			groups of 2 could	I give?
8 Join the de	ots.	•	6 Estimate the numb	per of stars, I
This is a re	egular	·		
9 Write the numeral fo	or:		MALE AND	
Write 839	in words.		Estimate =	Number =
The next e	even number afte	er 16.	,	Chall
2 Round off	54 to the neares	st_10.	Explain how you found	l your answer.
<b>13</b> The month	ns of winter.	<u>)</u>	• • • • • • • • •	
1 Complete	the pattern.		0	
<b>Q</b> , (		,,		<u>í</u> da
				Fill out the
Tu Tu	rn to ID Card B o	on page 7.		table for this cube.
Card (1	ve the answers f 5)	or these numbers.	shanes	
(1)	7)			ibe 🦳 🦯
(2	2)	(23)		The second





