FOREWORD

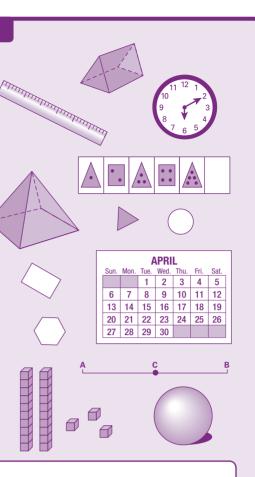
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New wave mental maths is a series of student workbooks, written to provide a comprehensive and structured daily mental maths program for students in Australian primary schools.

It has been revised to incorporate the requirements of the Australian maths curriculum and is designed to:

- encourage and develop students' mental calculation concepts and skills
- develop and reinforce students' problem-solving strategies
- · develop and maintain students' speed of recall
- introduce students to, and help them practise and understand, a range of mathematics vocabulary.

Assessment activities are provided for students to assess, monitor and record their own performance on a weekly basis. A separate teachers manual is available that accompanies the **New wave mental maths** series. This manual contains guidelines to help develop mental strategies, suggestions for classroom use, assessment tools, a list of the concepts developed and answers.



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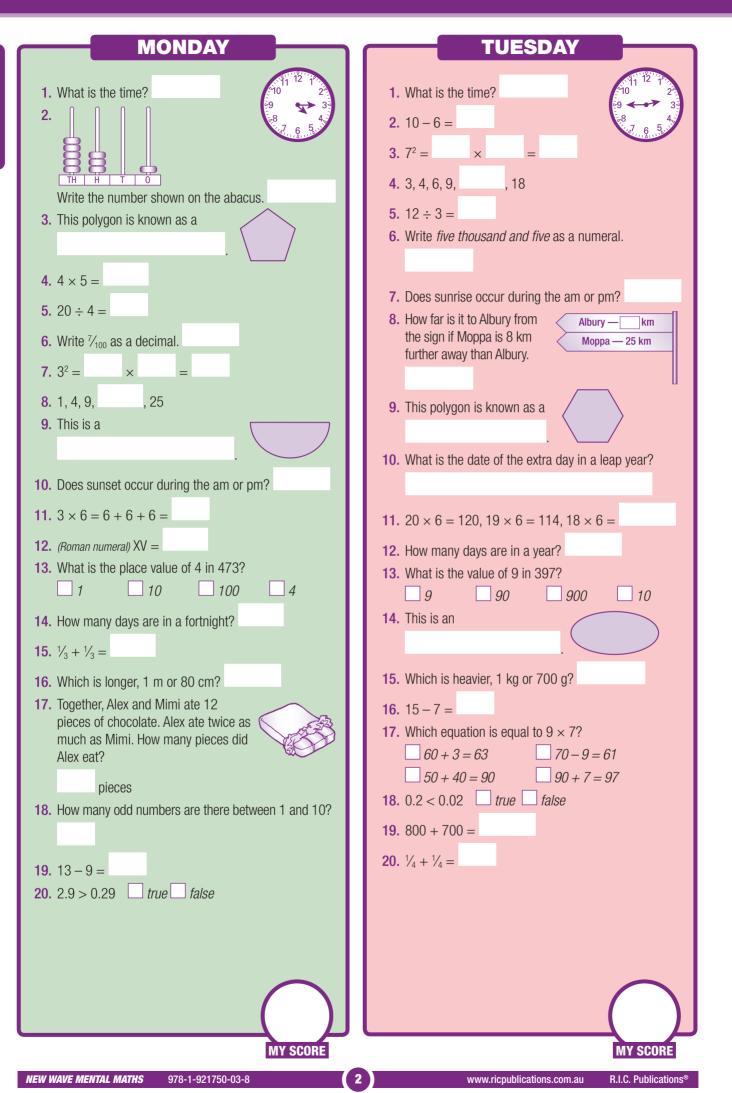
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WEDNESDAY	THURSDAY
1. Add half an hour to this time. 2.35	1. Add 30 minutes to this time. 11.40 .
2. 0.6 + 0.4 =	2. What is the area of a 6 by 4 grid?
3. 900 + 800 =	squares
4. 15 5 = 3	3. What is the cost of $4\frac{1}{2}$ kg of grapes if they are priced
5. If a super fast train travels at 400 km per hour and a journey from Brisbane to Sydney is a distance of 1200 km, how long will the journey take?	at \$3.00 per kg? 4. The time difference is: 6 hours. 12 hours. 8.30 am 8.30 pm
6. Write the missing factor of 30.	18 hours. 36 hours. 21 March 22 March
1, 2, 3, 5,, 10, 15, 30	5. 0.5 + 0.8 =
7. (Roman numeral) XLV =	6. Draw a horizontal line.
8. Round 16.9 to the nearest whole number.	
9. What is the chance of picking a king from a deck of	
52 playing cards?	7. 300 + 800 =
10. This is a $\sqrt{2}$	8. 2012 2012 = 1
	9. 55 mm = □ 550 cm □ 5.5 cm □ 505 cm □ 505 cm
11. If a bus left Gateshead at 6 am and arrived in	10. Which 3-D shape will best pack easily (tessellate) in
Borough at 11 pm, how long was the journey?	a box?
	11. If odd \times even = even, does $6 \times 7 = 41$ or 42 ?
12. How many tenths make up two wholes?	12. $2 - 0.2 = $, $2 - 0.02 =$
13. How much change will you receive from \$20 if you use it to buy a toy that costs \$16.40?	13. If you bought a comic book worth \$8.60, what change would you receive from \$20?
14. 2400 g = 24 kg 204 kg	14. Show as a $\frac{1}{2}$ turn clockwise.
<i>2.4 kg 240 kg</i> 15. 25 = 4 × 6	
6. $\frac{1}{4} = 0.25$, so $\frac{2}{4}$ or $\frac{1}{2} = \frac{1}{2}$.	
17. 6 × 9 = , 60 × 9 =	15. 1, 2, 4, 7, 11,
8. What is the cost of $2\frac{1}{2}$ kg of tomatoes at	16. Round 16.9 to the nearest whole number.
\$1.50 per kg?	17. How many fifths make up three wholes?18. Share \$20.00 equally among 8 people.
9. If $9 \times 9 = 81$ (odd × odd = odd),	s each
does $11 \times 11 = 121$ or 122 (odd or even)?	19. $6)\overline{84} =$
	20. What is the chance of $\begin{bmatrix} 1 \\ 6 \end{bmatrix}$
20. $\frac{1}{4} < 0.75$ \Box true \Box false	the pointer landing on an odd number?
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WEDNESDAY	THURSDAY
1. What was the time	1. What was the time 9.35 .
three-quarters of an hour	45 minutes before?
	2. Is a DVD symmetrical? yes no
2. 94 + 10 =	Shade approximately 60% of this DVD.
3. 1003 – 9 =	3. What is the area of a 6 by 8 grid? squares
4. Double 15. Halve 15.	4. Look at the chair's
5. Draw a reflection of:	shadow. Write L in one
LG	of the to indicate the A C C Ight source creating the
6. 4)92 =	shadow.
7. 4.6 kg = g	5. Double 1.7.
8. Write twenty-eight thousand, nine hundred and	
<i>fifteen</i> as a numeral.	6. 8.7 m = cm
	7. 100 000 - 1000 =
9. 62 + 32 =	8. How many people support Vic. Park? Favourite footy team
10. If 1 is north, then 🗡 is	Ascot Vic. Park
	Kensington?
11. Complete the magic square. 8	
5	9. Round $3\frac{3}{7}$ to the nearest whole.
4 2	10. Draw a reflection of:
12. The population of Cairns is 149 326.	BC
<i>Population</i> means: <i>the amount of pops living in a town.</i>	11. If you were halfway from the sign
the map reference.	to Albany, how many kilometres
the number of people living in a town.	would you have you travelled?
the number of balloons popped in a year.	12. If a family car weight about 1.5 tapped what would
13. $120 - 80 =$	12. If a family car weighs about 1.5 tonnes, what would be the total weight of 6 cars?
14. If you were in Brisbane and the date was 28.2, what season would it be?	🗌 156 t 🗌 9 t 🗌 90 t 🗌 1.5 t
	13. $\frac{1}{10} > \frac{1}{2}$ true false
15. 1750 + 550 =	14. Show as a $\frac{1}{2}$ turn.
16. Draw a $\frac{1}{2}$ turn to the left.	F '
c E	15. Halve 3.8.
	16. Are disposable batteries symmetrical? \Box yes \Box no
 17. 4 - 0.9 = 18. If the temperature was 42 °C, it would be: 	17. 2.19 × 100 =
extremely hot. warm.	18. 5 – 0.8 =
cool. freezing.	19. Halve 48. Double 48.
19. 2.1 + 0.9 =	
20. Halve 650.	20. $41 \div 6 = r$

WEDNESDAY	THURSDAY
1. 700 + 8000 + 60 + 2 =	1. How many triangles can you find?
2. 5 × 11 =	2. If $a = 7$, then $a + 9 = 1$.
3. 2.8 t = kg	3. $1/_5 > 1/_3$ b true b false
4. Luke, a farmer, sold 1 t of grapes for \$1000. If the grapes were packed in 25 kg boxes, how many boxes did he sell?	4. Draw a vertical line.
boxes	5. 60 + 50 =
5. How much did each box of grapes sell for?	6. What was the time 7 hours before 2.10 pm?
6. 2.4 + 0.6 =	
7. $\frac{1}{10} + \frac{9}{10} =$	7 Half 700
8. What will the time be 4 hours after 10.30 pm?	7. Half 700 = . Now halve it again: .
	8. , 9.9, 9.8, 9.7 9. Which set has 2 prime numbers?
0 0000 0007 0000	9. Which set has 2 prime numbers?
9. 9996, 9997, 9998,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, , ,, , ,, , ,, , , , , , , , , , , , , , , , , , , ,	10. $\frac{4}{10} + \frac{4}{10} = \frac{1}{10} = \frac{1}{10}$
	10. $\gamma_{10} + \gamma_{10} = \gamma_{10}$
11. 5)800 =	
	12. $36 \div 6 = \div 3$ 13. How many right angles does a rhombus have?
12. Are A and B congruent?	13. How many right angles does a mombus have:
13. 60 - 5 - 8 =	14. What is the cost of 10 kg of
14. How many internal angles does a decagon have?	onions at \$1.25 per 2 kg?
15. 0.8 > 1.0 true false	15. $4 \times 8 = 8 + 8 + 8 + 8 =$
16. What measurement would you use to measure milk	16. 1.6 L = mL
for a cake recipe?	17. Write thirty-seven thousand, one hundred and eleven
(mL, kg, cm, m)	as a numeral.
17. Write 92 as a Roman numeral.	
18. What is the cost of 100 m of pipe worth \$3.95 per	18. 40 × 8 = 320, 39 × 8 =
metre?	38 × 8 = , 37 × 8 =
19. 24 ÷ 8 = ÷ 4	19. The number on the abacus is
20. Packets of jelly beans are	
in 500-g boxes. What is the total number of packets in	If two beads are added to
boxes A and B?	each place value, the new number is
packets Jelly B	20. Circle the matching shape.
Beans 500 g	
	A B C D
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