

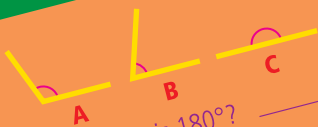
New wave mental maths

E

Revised edition



THURSDAY



- Which angle is 180° ? _____
- Which angle is obtuse? _____
- Which angle is acute? _____



= \$ _____

Favourite colours

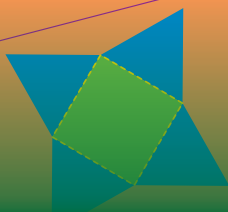


Read the pie graph and calculate the amount for green. _____

Add two-thirds of an hour to this time. _____



This is a net of a _____



PROBLEM-SOLVING

MONDAY



The difference in price is \$ _____.
 Ines, the investor, purchased both houses with a \$40 000 discount.
 She paid \$ _____.

TUESDAY

Complete the 3rd pattern.



WEDNESDAY



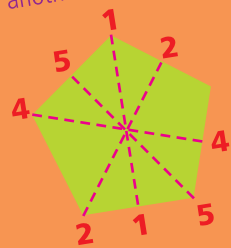
Lines of symmetry	Triangle
0	Scalene
1.	Equilateral
2.	Isosceles

THURSDAY

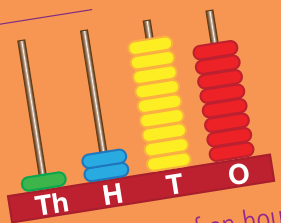
An architect designed an auditorium. Row A has 25 seats. Each row has 25 more seats than the previous row. What is the seating capacity? _____

FRIDAY REVIEW

Draw another line of symmetry.



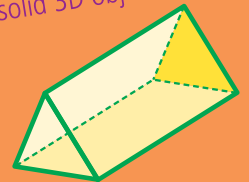
Add 2 beads to each place value and write the new amount.



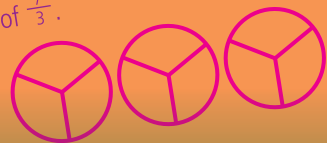
Add one-quarter of an hour to the time. _____



This solid 3D object is a _____



Colour the improper fraction of $\frac{7}{3}$.



- Retains many of the bestselling features of **New wave mental maths**, with a range of added extras and new improvements, particularly in relation to problem-solving.
- Provides a 40-week, structured mental maths program linking to Australian Curriculum Mathematics, covering the strands of Number and Algebra, Measurement and Geometry, and Statistics and Probability.
- Provides daily practice of mental maths and problem-solving skills (10 daily questions for Book B; 15 daily questions for Book C; and 20 daily questions for Book D, Book E and Book F).
- Develops mathematical concepts and vocabulary sequentially, along with practice in speed of recall.

New features

- Modern and contemporary layout using subtle colours, which is not distracting or overwhelming for the student.
- A new 'Problem-solving' column in each week's unit of work.
- Problem-solving questions drawn from a mixture of strands and sub-strands, incorporating real-life maths contexts and situations.
- Problem-solving questions positioned in a separate column so teachers can use them flexibly: either for classwork or homework, or for a mental challenge before the maths daily lesson.
- Pictorial and written representatives of problems in both the problem-solving and daily columns.
- Maximum focus on maths concepts with the language and readability of questions simplified.
- Includes new question types, with the removal of some of the previous ones, based on feedback, comments and observations from practising teachers.

Book B	Books C–F
<ul style="list-style-type: none"> • New 'Problem-solving' column with one carefully worded problem-solving question for each day. • Friday review is grouped by a strand icon (Number and Algebra, Measurement and Geometry, and Statistics and Probability) to assist with teacher assessment of student's ability. 	<ul style="list-style-type: none"> • New format using a 3-page weekly unit with the Friday review now moved into the main week's unit of work for ease of access. • New 'Problem-solving' column with two carefully worded problem-solving questions for each day. • Friday review is grouped by a strand icon (Number and Algebra, Measurement and Geometry, and Statistics and Probability) to assist with teacher assessment of student's ability.

MONDAY

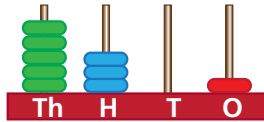
1. What is the time? _____



3. 1, 4, 9, _____, 25, 36

2. $3 \times 3 \times 2 =$ _____

4. Write the number shown on the abacus.



5. This polygon is known as a _____



6. $4 \times 5 =$ _____

7. $20 \div 4 =$ _____

8. Write $\frac{7}{100}$ as a decimal. _____

9. This is a _____



10. Does sunset occur during the am or pm? _____

11. $3 \times 6 = 6 + 6 + 6 =$ _____

12. Round 4766 to the nearest thousand. _____

13. What is the place value of 4 in 473?

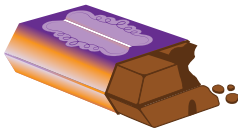
1 10 100 4

14. How many days are in a fortnight? _____

15. $\frac{1}{3} + \frac{1}{3} =$ _____

16. Which is longer, 1 m or 80 cm? _____

17. Together, Alex and Mimi ate 12 pieces of chocolate. Alex ate twice as much as Mimi. How many pieces did Alex eat?



18. How many odd numbers are there between 1 and 10? _____

19. $13 - 9 =$ _____

20. $2.9 > 0.29$ true false

TUESDAY

1. What is the time? _____



2. $10 - 6 =$ _____

3. $7 \times 7 =$ _____

4. Complete the multiples of 3.

3				
				45

5. $12 \div 3 =$ _____

6. Write *five thousand and five* as a numeral. _____

7. Does sunrise occur during the am or pm? _____

8. How far is it to Albury from the sign if Moppa is 8 km further away than Albury.



9. This polygon is known as a _____



10. What is the date of the extra day in a leap year? _____

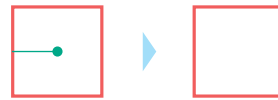
11. $20 \times 6 = 120$, $19 \times 6 = 114$, $18 \times 6 =$ _____

12. How many days are in a year? _____

13. What is the value of 9 in 397?

9 90 900 10

14. Rotate $\frac{1}{4}$ turn clockwise.



15. Which is heavier, 1 kg or 700 g? _____

16. $15 - 7 =$ _____

17. Which equation (number sentence) is equal to 9×7 ?

$60 + 3 = 63$ $70 - 9 = 61$

$50 + 40 = 90$ $90 + 7 = 97$

18. $0.2 < 0.02$ true false

19. $800 + 700 =$ _____

20. $\frac{1}{4} + \frac{1}{4} =$ _____



WEDNESDAY

1. What is the time? _____



2. $3 \times 4 =$ _____

3. $9 \times 9 =$ _____

4. $9 \div 3 =$ _____



5. This is an _____.

6. Write *twelve thousand, eight hundred and one* as a numeral.

7. How many days are in a leap year? _____

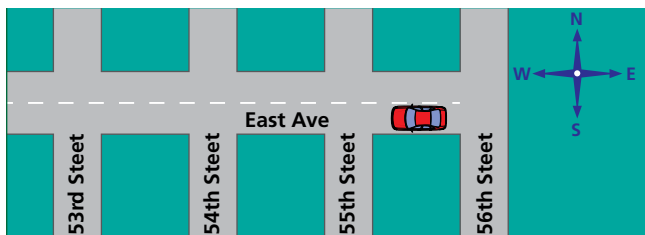
8. Name a quadrilateral shape.

9. 2, 4, 8, 16, _____

10. $\frac{3}{10} + \frac{2}{10} =$ _____

11. How many even numbers are there between 10 and 20?

12. If yesterday was Saturday, what day will tomorrow be?



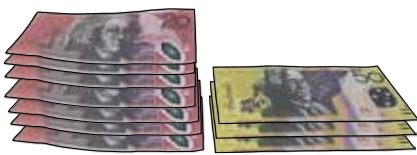
13. If you travel west and turn right at the second street, what street are you in?

14. One decade = _____ years

15. $1100 - 300 =$ _____

16. $60 \square 5 = 12$

17. Double 175. _____



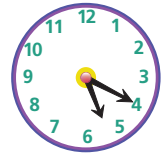
18. _____ = \$ _____

19. What is the perimeter of a regular hexagon with 6-cm sides?

20. $0.09 > \frac{8}{100}$ true false

THURSDAY

1. What is the time? _____





2. $110 - 50 =$ _____

3. This shape is an _____.



4. $6 \times 10 = 60$, $6 \times 100 = 600$,
 $6 \times 1000 = 6000$, $6 \times 10\,000 =$ _____

5. How many weeks are in one year? _____

6. Antonio purchased an ice-cream for . He gave . What will be his change? _____

7. Complete the pattern. 5, 10, 20, 40, _____

8. $15 \div 3 =$ _____

9. $\frac{4}{9} + \frac{2}{9} =$ _____

10. This is a _____.



11. Fill in the right spots for the numbers 2, 7, 9, 10.

	Prime	Composite
Odd		
Even		

12. One century = _____ years

13. $7 + 7 + 7 =$ _____

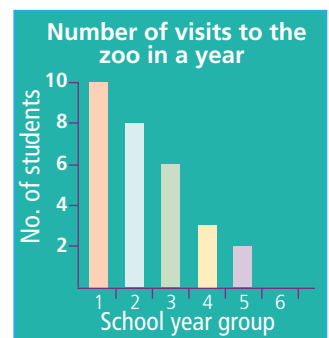
14. If the sun is in the east and is low to the horizon, is it likely to be morning or afternoon?

15. Write the number before 510. _____

16. $4 + 7 =$ _____

17. (a) Which year group is the zoo popular with?

(b) To promote the zoo, which year groups would you target?



18. $1.1 > 1.04$ true false

19. What is the place value of 8 in 218?
 1 10 100 8

20. Write $\frac{2}{100}$ as a decimal. _____

PROBLEM-SOLVING

Monday

1. Chef bought 20 pizza boxes at \$19.95 per box. Chef paid with \$50 notes. How many notes will be needed at the checkout?

2. Six of the twenty boxes of pizza were vegetarian. Write, in the simplest form, the fraction of vegetarian pizzas.



Tuesday

1. The week prior Chef purchased 80 cans of beans at \$1.95 each. Chef paid with \$20 notes. How many notes did he use?

2. What was the date when Chef bought the cans of beans?



Wednesday

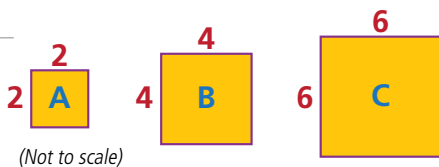
Write in the missing digits.

1.
$$\begin{array}{r} 39\boxed{5} \\ + \quad \boxed{5}4 \\ \hline 4329 \end{array}$$

2.
$$\begin{array}{r} 536\boxed{ } \\ + 2\boxed{ }12 \\ \hline 8180 \end{array}$$

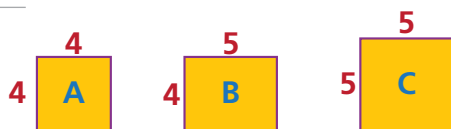
Thursday

1. Which square would have a perimeter of 16 units?



(Not to scale)

2. Which quadrilateral would have an area of 20 square units?



(Not to scale)

FRIDAY REVIEW

1 $4 \times 3 =$ _____

2 $11 - 5 =$ _____

3 $12 \div 3 =$ _____

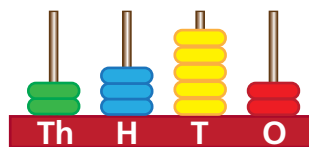
4 $\$10.00 - \$4.50 =$ _____

5 10, 20, 40, _____, 160

6 $\frac{3}{9} + \frac{5}{9} =$ _____

7 How many odd numbers are there from 10 to 20?

8 Write the number shown on the abacus.



9 4, 8, _____, 16, 20,

10 $8 + 8 + 8 =$ _____

11 Together, Natasha and Sonja ate 9 pieces of chocolate. If Sonja ate twice as much as Natasha, how many pieces did Sonja eat?

12 $8 < 10$ true false

13 What is the place value of 9 in 397?

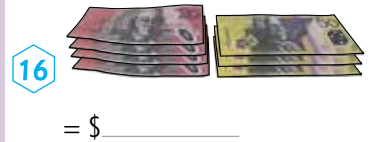
- 1 10
 100 1000

14 $20 \times 7 = 140,$

$19 \times 7 = 133,$

$18 \times 7 =$ _____

15 Double 175. _____



16 = \$ _____

17 Write *eleven thousand, one hundred and ten* as a numeral.

18 The number before 1100 is _____.

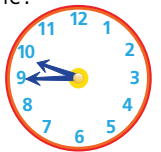
19 Write $\frac{4}{100}$ as a decimal.

20 Which is longer, 90 cm or 2 m?

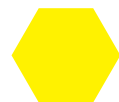
21 From the 1 Jan to 31 Dec is _____ days or

1 _____.

22 What is the time?



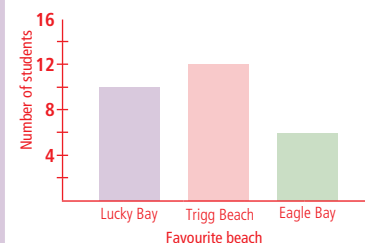
23 This is a _____.



24 Which is heavier, 2 kg or 400 g?

25 The difference between the most to least favourite beach is _____.

Year 5 favourite beach for selfies



MONDAY

TUESDAY

1. What is the time? _____



2. $5 \times 9 =$ _____

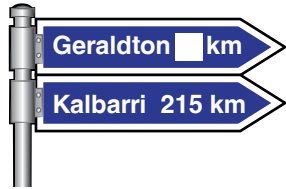
3. This is a _____.



4. 1 minute = _____ seconds

5. 160, 80, _____, 20, 10

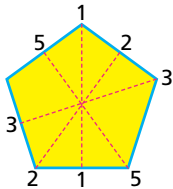
6. How far is it from the sign to Geraldton if Kalbarri is 10 km further away than Geraldton?



7. $24 \div 4 =$ _____

8. $3 \times 7 = 7 + 7 + 7 =$ _____

9. Draw another line of symmetry.



10. $5 \times 5 \times 20 =$ _____

11. 1 kg = _____ g

12. $70 + 7 + 4 =$ _____

13. Rotate a $\frac{1}{2}$ turn clockwise.



14. $120 - 70 =$ _____

15. Round 35 578 to the nearest ten thousand.

16. $50 - 15 =$ _____

17. A _____ B

Measure the length of \overline{AB} in cm. _____ cm

18. 1 m = _____ cm

19. Olivia had  and spent



What amount of money did she have left? _____

20. $\frac{3}{5} + \frac{1}{5} =$ _____

1. What is the time? _____



2. Double 145. _____

3. $3 \times 9 = 9 + 9 + 9 =$ _____

4. 1250, 1000, _____, 500, 250

5. If 1 hour is 60 minutes, and 3 hours is

$3 \times 60 = 180$ minutes, then

5 hours is $5 \times$ _____ = _____ minutes.

6. $50 \div 5 =$ _____

7. $28 \square 4 = 7$

8. Share 30 balloons into groups of 6 .

9. This is a _____.



10. What is the cost of 2 kg of bananas at \$1.50 per kg?

11. Round 15 798 to the nearest thousand. _____

12. $60 + 6 + 7 =$ _____

13. Rotate a $\frac{1}{4}$ turn clockwise.



14. A _____ B

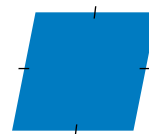
Measure the length of \overline{AB} in cm. _____ cm

15. This is a:

square.

rhombus.

rectangle.



16. If 1783 is 17 hundred and 83, then 2495 is

_____ hundred and _____.

17. 1 cm = _____ mm

18. $\frac{2}{10} + \frac{7}{10} =$ _____

19. $23 \times 8 = (20 \times 8) + (3 \times 8)$

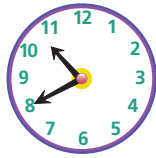
= _____ + _____

= 184

20. odd – even = _____

WEDNESDAY

1. What is the time? _____



2. Will $21 \div 3$ equal a number greater than 10 or less than 10?

3. Write *forty thousand and four* as a numeral.

4. 1050, _____, 750, 600, 450

5. $5734 - 734 =$ _____

6. How many hours are in a day? _____

7. $\$5.00 - \$1.90 =$ _____

8. This is an irregular



9. $7 \times 7 =$ _____

10. Rotate a $\frac{3}{4}$ turn clockwise.



11. $3 \times 8 = 8 + 8 + 8 =$ _____

12. On holidays you stop and read this sign. What do the numbers represent?

- population
- distance in miles
- distance in kilometres

Melbourne	304
Geelong	220
Lorne	32

13. 1 L = _____ mL

14. (a) $3 \times 8 =$ _____

(b) $7 \times 8 =$ _____

15. $\frac{3}{8} + \frac{4}{8} =$ _____

16. X _____ Y

Measure the length of \overline{XY} in cm.

_____ cm

17. 1 m = _____ mm

18. How many tens are there in 640? _____

19. even + even = _____

20. Add 100 to 3980. _____

THURSDAY

1. What is the time? _____



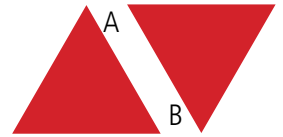
2. E _____ F


Measure the length of \overline{EF} in cm.

_____ cm

3. 2 equilateral triangles are joined at A and B. They make a:

- pentagon.
- rhombus.
- rectangle.



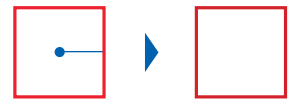
4. 
= \$ _____

5. Double 275. _____

6. $\$5.00 - \$3.90 =$ _____

7. $45 \div 9 =$ _____

8. 1 t = _____ kg



9. Rotate a $\frac{1}{4}$ turn clockwise.

10. $40 \times 7 = 280$, $39 \times 7 = 273$, $38 \times 7 =$ _____

11. Write the fractions in ascending order.

$\frac{1}{5}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{10}$ $\frac{1}{6}$

12. Write $\frac{4}{100}$ as a decimal. _____

13. In Wednesday Question 12, what are the distances between:

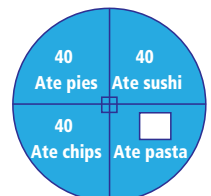
(a) Melbourne and Geelong? _____

(b) Melbourne and Lorne? _____

14. $2100 - 700 =$ _____

Lunchtime food survey

15. Read the pie graph and calculate the number of students that ate pasta.



16. 1 km = _____ m

17. $13 - 8 =$ _____

18. odd + odd = _____

19. What is the perimeter of an equilateral triangle with 8-cm sides? _____

20. What is the cost of 3 kg of grapes at \$2.50 per kg?

MY SCORE

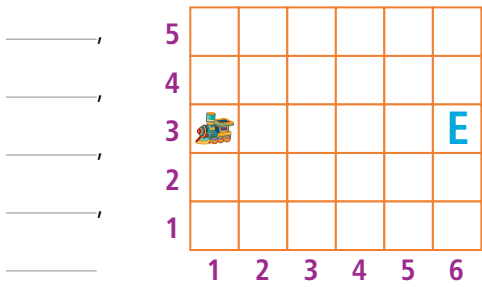


MY SCORE



Monday

1. You are an animator. Write the coordinates for the train to slide (translate) to point E.

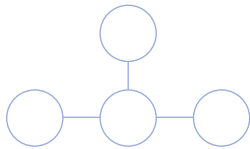


2. Draw a cloud in 2,5 and 6,5.

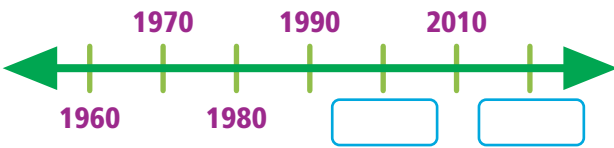
Tuesday

1. Make the numbers across and down total 12.

Use 3, 4, 5 and 8.



2. Complete the time line.



Wednesday

1. Emma had 5 times more 20c coins than Jess. Emma had \$4. How many 20c coins did Jess have?

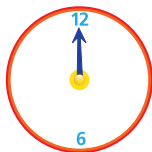
2. $\frac{1}{3}$ of the pencils in a jar are red and the remaining 10 are green. How many are red?

Thursday

Complete the patterns.

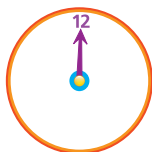
1. A clock hand rotated from 12 to 6.

This is _____°.



2. A clock hand rotated from 12 to 12.

This is equal to _____°.



1 600, 450, 300, _____

- 2 Write the fractions in ascending order.

$\frac{1}{8}$ $\frac{1}{6}$ $\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{5}$

3 $2100 - 900 =$ _____

4 22×8
 $= (20 \times 8) + (2 \times 8)$
 $=$ _____ $+$ _____
 $=$ _____

5 1 m = _____ mm

- 6 How far is it from the sign to Geelong if Lorne is 20 km further away than Geelong?



7 $6 \times 8 =$ _____

- 8 Add 100 to 2970.

- 9 Kieran had \$10 and spent \$5 + \$1 + 50 c. What money did he have left?

10 $\frac{3}{9} + \frac{4}{9} =$ _____

- 11 Round 12 345 to the nearest thousand.

12 100, 75, 50, _____

13 $8 + 8 + 8 =$ _____

- 14 Does $24 \div 3$ equal an amount <10 or >10 ?

15 odd + even = _____

- 16 What is the cost of buying 4 kg of potatoes at 50c per kg?

- 17 If Marissa and Angie together rode 60 km in one week and Marissa rode twice as far as Angie, how far did Marissa ride?

- 18 $2.5 < 2.05$
 true false

- 19 What is the time?

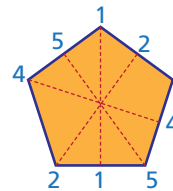


20 1 kg = _____ g

- 21 Rotate a $\frac{3}{4}$ turn clockwise.



- 22 Draw another line of symmetry.



- 23 Draw a horizontal line.



- 24 Name this shape.



- 25 Of the students that ate sushi, half were boys. Draw a line and label the pie graph to show this new data.

Lunchtime food survey

