

New wave mental maths

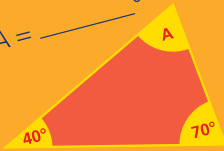


THURSDAY

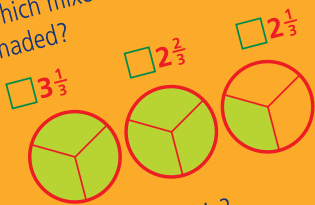
What is the time?



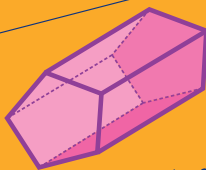
Angle A = _____°



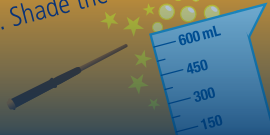
Which mixed fraction is shaded?



What shape is this?



The wizard's special potion needs 225 mL of pineapple juice. Shade the amount.



PROBLEM-SOLVING

MONDAY



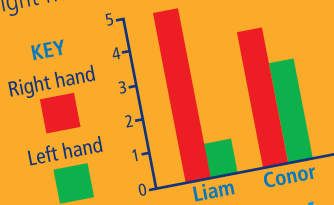
Was \$50
Now \$ _____

Was \$90
Now \$ _____

TUESDAY

2 boys had a basketball contest for shooting hoops. (Best of 5 shots)

Who won? _____
Who scored the most with their left hand? _____
right hand? _____



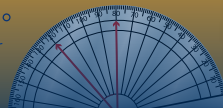
WEDNESDAY



A fast train travels at 400 km/h. After a $2\frac{1}{2}$ -hour non-stop journey, what distance has the train travelled? _____ km

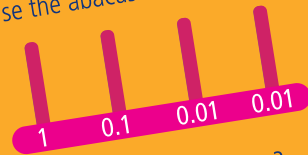
THURSDAY

What is the angle shown?



FRIDAY REVIEW

Use the abacus to show 3.054.



Rotate a $\frac{3}{4}$ turn clockwise?



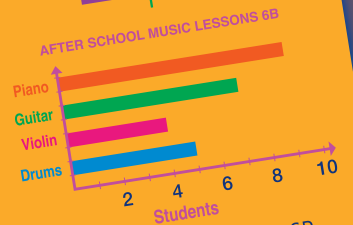
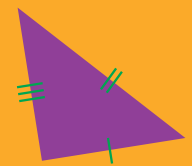
What is the rpm for this V8 car engine?



- (a) 5
- (b) 50
- (c) 500
- (d) 5000
- (e) 0.005

Which triangle is shown?

- isosceles
- scalene



How many students from 6B were surveyed?

What fraction and percentage of students is learning guitar?

- 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.

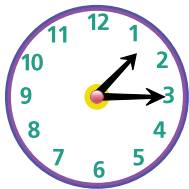
New features

- 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.

<i>Book B</i>	<i>Books C–F</i>
<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?



2. $9 + 9 + 9 =$ _____

3. $1\frac{3}{4}$ is closer to: 1 2

4. Mark the parallel sides.



5. $\$5.00 - \$3.50 =$ _____

6. Halve 1250. _____

7. 25, 50, 75, _____, 125

8. $\frac{1}{2} > \frac{1}{3}$ true false

9. $49 \times 9 =$

(a) $(50 \times 9) - 1$

(b) $(50 \times 9) - (1 \times 9)$

(c) $(50 \times 9) + (1 \times 9)$

10. 1 m = _____ cm

11. Which is symmetrical?

A G N S

12. Write *ten thousand and ten* as a numeral.

13. What is the length of \overline{AB} ?



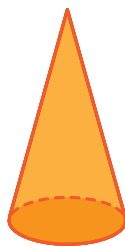
_____ mm

14. Round 1151 to the nearest hundred. _____

15. $2.5 \times 2 =$ _____

16. 96, 90, _____, _____, 72, 66

17. Name this 3D object.



18. Does sunset occur at am or pm time?

19. $90 - 33 =$ _____

20. In which season is July?

TUESDAY

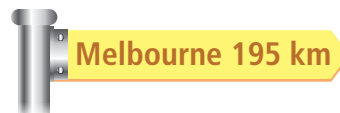
1. Write the next four multiples of 3.

27, 30, 33, 36, _____, _____, _____, _____

2. $2\frac{4}{5}$ is closer to: 2 3

3. In which season is October?

4. A truck driver travelled 32 km from the sign towards Melbourne.



How many kilometres are left to travel? _____

5. $8 + 8 + 8 =$ _____ $= 3 \times 8$

6. $500 + 700 =$ _____

7. $\$5.00 - \$2.90 =$ _____

8. $2091 - 100 =$ _____

9. What is the speeding fine?

5–12 km/h \$75

13–19 km/h \$150

20–27 km/h \$200



10. Write *one hundred and one thousand* as a numeral.

11. $70 \times 9 =$ _____

12. $69 \times 9 =$ _____

13. 1 cm = _____ mm

14. A third of 27 is:

$27 \div 3$

3×27

$27 - 3$

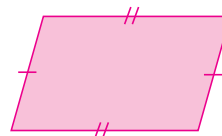
$\frac{3}{27}$

15. This quadrilateral with no right angles is a:

rectangle.

parallelogram.

rhombus.



16. $\frac{1}{2} > \frac{1}{6}$ true false

17. $0.9 \times 10 =$ _____

18. 36, _____, 28, 24, 20, _____

19. Is Z symmetrical? _____

20. 1 kg = _____ g

MY SCORE



MY SCORE



1. What is the time? _____



2. $\$5.00 - \$4.40 =$ _____

3. Is $3\frac{4}{10}$ closer to 3 or 4? _____

4. $\frac{3}{100} = 0.\text{_____} = \text{_____}\%$



5. Show as a $\frac{1}{4}$ turn clockwise.

6. A quarter of 40 is:

$40 - 4$

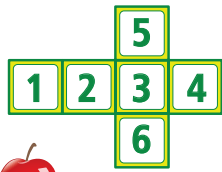
$40 \div 4$

$\frac{4}{40}$

40×4

7. $60 + 60 + 60 =$ _____

8. Match the net with the dice. Which number fits on the blank face?



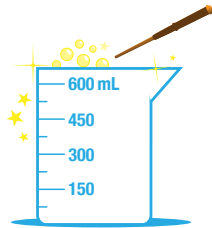
9. $491 \square 10 = 49.1$



10. $1 \text{ km} =$ _____ m

11. If 6 apples = 1 kg, how many weigh 4 kg? _____

12. The wizard's special potion needs 225 mL of pineapple juice. Shade this amount.



13. $25 \times 16 \times 4 =$ _____

14. $3 \times 8 =$ _____

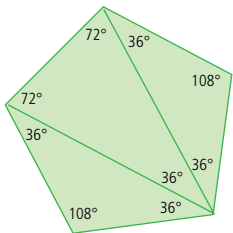
15. $30 \times 8 =$ _____

16. $0.8 \times 10 =$ _____

17. This regular pentagon has scalene triangles.

isosceles triangles.

equilateral triangles.

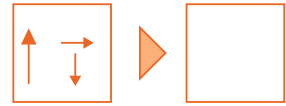


18. $\frac{1}{2} < \frac{1}{5}$ true false

19. $1 \text{ t} =$ _____ kg

20. $6 \overline{)96} =$ _____

1. $9.5 \times 2 =$ _____



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

3. Is $2\frac{2}{3}$ closer to 2 or 3? _____

4. $0.4 \times 100 =$ _____

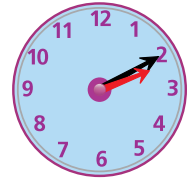
-4 -3 A B 0 1 2 3

5. _____

A = _____ B = _____

6. 2000, _____, 1300, 950

7. $1300 - 950 =$ _____



8. What is the time? _____

9. Write the fraction of one quarter. _____

10. The polygon for:

(a) **A** is an _____.

(b) **B** is an _____.



11. $1 \text{ m} =$ _____ cm

12. $9 \times 3 =$ _____,

13. $90 \times 3 =$ _____

14. Alicia received 45c change from \$5. What amount did she spend?



15. Which spinner is least likely to sum to 7? _____

16. Triangular numbers! Draw the next in this sequence.

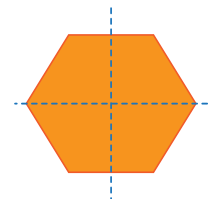


17. In which season is April? _____

18. Write $\frac{1}{2}$ as a decimal. _____

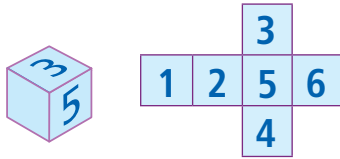
19. $\frac{1}{4} > \frac{1}{2}$ true false

20. Draw 4 more lines of symmetry.

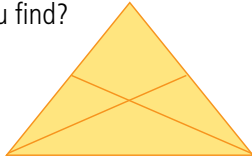


Monday

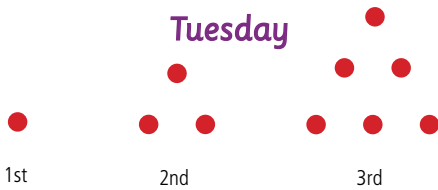
1. Look at the net. Which number is missing from the blank face of the cube?



2. How many triangles can you find?



Tuesday



1. What is the 6th triangular number?

2. What is the 8th triangular number?

Wednesday

1. What is the sum of the numbers not visible on the dice?



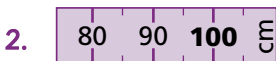
2. What is the sum of the numbers on the bottom of the dice?



Thursday



1. The obtuse angle of $a =$ _____ $^\circ$



2. The measurement at **A** = _____ mm

1 108, 96, 84, _____

2 $30 \times 7 =$ _____

3 $0.7 \times 10 =$ _____

4 $\$5.00 - \$3.40 =$ _____

5 Write $\frac{1}{4}$ as a decimal.

6 125, 100, _____, 50, 25

7 $406 \div 10 =$ _____

8 $80 - 43 =$ _____

9 $14 \times 25 \times 4 =$ _____

10 The value at **A** is _____.



11 What is the speeding fine?



- 13–19 km/h \$200
- 20–29 km/h \$300
- 30–39 km/h \$400

12 $2\frac{3}{4}$ is closer to:

- 2
- 3

13 A quarter of 36 is:

- $\frac{4}{36}$
- $36 \div 4$
- $36 - 4$
- 36×4

14 $1087 - 100 =$ _____

15 $0.824 \times 100 =$ _____

16 $8.5 \times 2 =$ _____

17 $410 - 70 =$ _____

18 What is the time?



19 Show as a 90° turn clockwise.



20 What season is July in?

21 1 km = _____ m

22 The length of one side of this square is _____ cm.

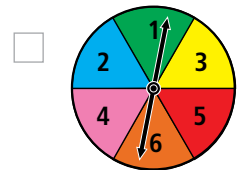
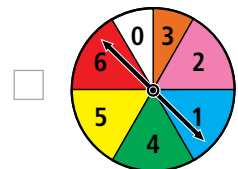
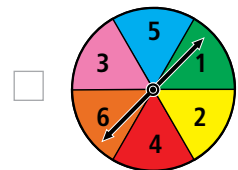


23 Which is symmetrical?

- Y
- F

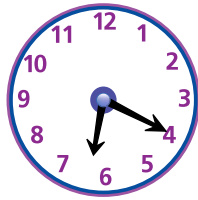
24 Sunrise is during am pm time.

24 Which spinner is more likely to land on a sum of 7?



MONDAY

1. What is the time? _____
2. $0.7 \times 10 =$ _____
3. $800 + 300 =$ _____
4. $7 + 7 + 7 =$ _____
5. $4 \times 9 =$ _____



6.  - \$1.25 = _____

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

8. Is $9\frac{3}{4}$ closer to 9 or 10? _____

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



10. $41 \div 5 =$ _____ r _____

11. $45 \times 25 \times 4 =$ _____

12. $\frac{1}{10} > \frac{1}{2}$ true false

13. $487 \div 100 =$ _____

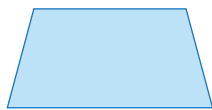
14. $71 - 7 =$ _____

15. Numbers divisible by 8 include 40, 80, 120, 160 and 200. Which set is also divisible by 8?

- 240, 280, 320, 360
- 220, 240, 260, 280
- 240, 260, 300, 320

16. What season is January in? _____

17. This is a: rhombus.
 trapezium.
 parallelogram.



18. $800\ 000 +$ _____ $= 890\ 780$

19. Write $\frac{1}{4}$ as a decimal. _____

20. $30 \times 40 =$ _____

TUESDAY

1. Numbers divisible by 6 include 30, 60, 90, 120, 150, 180. Which set is also divisible by 6?

- 190, 200, 210, 220
- 210, 220, 240, 260
- 210, 240, 270, 300

2. How many weeks are in one year? _____

3. $4 \times 8 =$ _____

4. Halve 1930. _____

5. 10 000, 9750, _____ 9250

6. Write *one hundred thousand and eleven* as a numeral.

7. $\$10.00 - \$7.30 =$ _____



8. Rotate 90° clockwise.

9. $90 \times 9 =$ _____

10. $89 \times 9 =$ _____

11. $53 \div 5 =$ _____ r _____



12. How many \$20 banknotes make up \$1000?

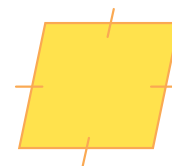
13. Is $8\frac{4}{5}$ closer to 8 or 9? _____

14. $0.5\text{ km} = 500\text{ m}$

$0.6\text{ km} =$ _____ m

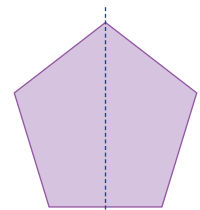
15. This is a:

- rhombus.
- trapezium.
- square.



16. $\frac{1}{3} > \frac{1}{8}$ true false

17. Draw the other 4 lines of symmetry.



18. $209 \div 10 =$ _____

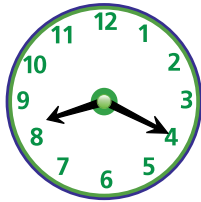
19. $600 - 35 =$ _____

20. $60 \times 30 =$ _____

WEDNESDAY

THURSDAY

1. What is the time? _____



2. $25 \times 32 \times 4 =$ _____

3. A fifth of 35 = _____

4. A hectare is abbreviated to ha.

1 ha = _____ m^2

5. Write *three hundred and ten thousand, one hundred* as a numeral.

6. $19 + 18 + 17 = 20 + 20 + 20 -$ _____

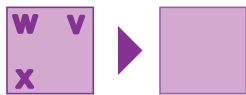
7. $1200 - 750 =$ _____

8. The value of the ones in the product of 717×7 is:

7 1 9

9. Write $\frac{8}{12}$ in its simplest form. _____

10. Rotate 270° anti-clockwise.



11. odd + odd = odd even

12. The rhombus has been transformed by:



translation. reflection.

13. Round $3\frac{4}{5}$ to the nearest whole number. _____

14. $0.3 \times 10 =$ _____

15. $38 \div 5 =$ ____ r ____

16. $40 \times 6 =$ _____

17. $\frac{4}{5} < \frac{1}{10}$ true false

18. + + _____

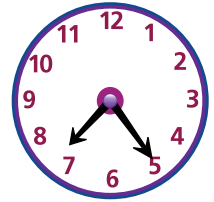
$2 \times 3 + 1 = 7$ _____ \times _____ + _____ = _____

19. What season is this likely to be?



20. $900 - 55 =$ _____

1. What is the time? _____



2. + _____

_____ \times _____ + _____ = _____

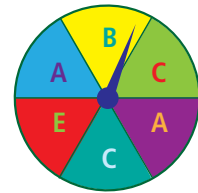
3. A fifth of 120 = _____

4. What season is it likely to be?



5. $17 + 19 + 29 = 20 + 20 + 30 -$ _____

6. $0.2 \times 100 =$ _____



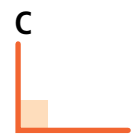
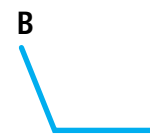
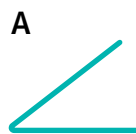
7. The probability of an A is
_____.

8. Write *half a million* as a numeral. _____

9. $0.937 \times 100 =$ _____

10. Match the name and angle.

obtuse _____ acute _____ right angle _____



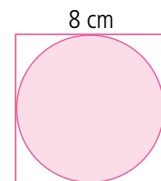
11. $72 - 8 =$ _____

12. odd + even = odd even

13. Round $7\frac{1}{5}$ to the nearest whole number. _____

14. What is the radius of the circle?

_____ cm



15. 1 m = _____ mm

16. 124, 129, 134, _____, 144

17. $20 \times 9 =$ _____

18. $19 \times 9 =$ _____

19. $49 \div 5 =$ ____ r ____

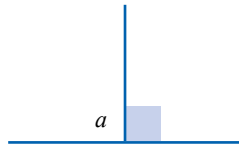
20. 2 ha = _____ m^2

PROBLEM-SOLVING

Monday

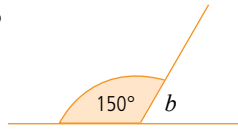
1. What is the size of Angle a ?

_____ °



2. What is the size of Angle b ?

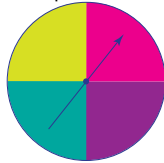
_____ °



Tuesday

1. Write the numbers 1, 2, 3 and 4 on the spinner.

- (a) 1 has a 1 in 4 chance.
- (b) 2 has a 25% chance.
- (c) 3 and 4 have the same chance.

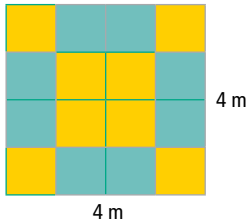


2. Eva saved \$1200 and purchased a new guitar for \$980. Eva bought a new strap for a further \$55. What money has she leftover after her buying spree?

Wednesday

1. What area do the flowers occupy? _____ m²

- flowers
- paving



2. The paving area cost \$40 per square metre. What is the total cost?

Thursday

1. A non-stop fast train took 4 hours to cover 1000 km. What was the average speed?

_____ km/h

2. On another trip the train travelled a distance of 720 km in 180 minutes. What is the average speed?

_____ km/h



FRIDAY REVIEW

1 A fifth of 75 = _____

2 Write $\frac{1}{2}$ as a decimal.

3 $50 \times 9 = 450$

$49 \times 9 =$ _____.

4 The value of the ones for 9193×7 is
_____.

5 $413 \div 100 =$ _____

6 Halve 1410. _____

7 $0.4 \times 10 =$ _____

8 $700 - 250 =$ _____

9 $\frac{1}{3} < \frac{1}{7}$ true false

10 How many \$20 notes make up \$900?



11 + _____

_____ \times _____ + _____
= _____

12 $37 \div 5 =$ _____ r _____

13 $30 \times 8 =$ _____

14 $29 \times 8 =$ _____

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

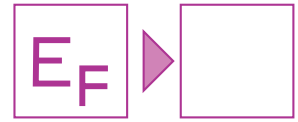
16 odd + odd = _____

17 Write $\frac{9}{12}$ in its simplest form.

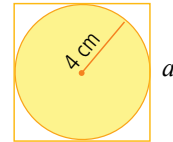
18 1 m = _____ mm

19 1 L = _____ mL

20 Rotate the shapes 180°.



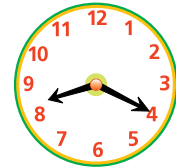
21 What is the length of side a of this square?



22 This is a:

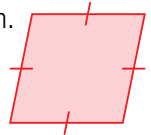
- rhombus.
- parallelogram.
- trapezium.

23 What is the time?



24 This is a:

- trapezium.
- rhombus.
- square.



25 The probability of landing on a vowel is

_____.

