

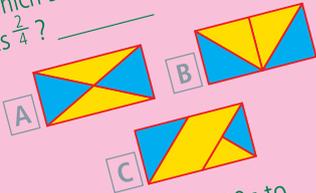
New wave mental maths



Revised edition

THURSDAY

Which shape(s) are shaded as $\frac{2}{4}$?



How many more 50c to make \$6?



Name this 3D object.



Which book is standing vertically?



Tick the shapes with symmetry.



PROBLEM-SOLVING

MONDAY

Cinema	HHHHH
Camping	HHHn
Judo	Hn
Dancing	HHn

H = 2
n = 1

The number of Room 4 children who like going to the cinema is the same as the sum of which two activities?

_____ and _____
Room 4 has 30 students.
How many were not asked? _____

TUESDAY

Using 2 green and 2 yellow, colour each box a different way.



WEDNESDAY

Use 3, 4, 5 and 9 to make 12 across and down.



THURSDAY

Which spinner is certain of landing on the sum of 7?



FRIDAY REVIEW

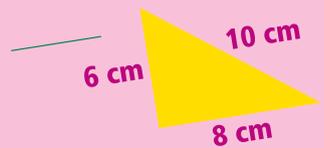


Share the ice-creams evenly between two boys.
How many per boy? _____

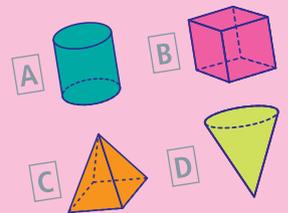
Complete the fractions.



What is the perimeter?



This  is a top view of which object? _____



What is the time?

_____ pm



- 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. $2 \times 5 = \underline{\quad} + \underline{\quad} = 10$

3. Does this shape match A, B, C or D?



4. $3 \times 7 =$

$7 \times 7 \times 7$ $7 + 7 + 7$ $3 + 7$

5. Alex caught eleven fish and gave three away.

How many fish does Alex have now? _____

6. Group the shells into lots of 4.



How many lots are there? _____

$4 \times \underline{\quad} = 12$ and $12 \div 4 = \underline{\quad}$

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

8. How many days are in a fortnight? _____

9. I am about _____ cm tall.

10. This  is a top view of which object? _____



11. $1 \text{ m} = \underline{\quad} \text{ cm}$

12. 230, 220, 210, _____, 190

13. $5 + 6 = 11$, $11 - \underline{\quad} = 6$

14. $3 \times 6 = 18$, $\underline{\quad} \div 3 = 6$

15. (a) $80 + 30 = \underline{\quad}$

(even) + (even) = even

(b) Is your answer even? _____

16. Which stack of coins is greater than \$4? _____



17. Which stack of coins is equal to \$4? _____

18. Which stack of coins is less than \$4? _____

19. What is the total of all the coins? \$ _____

20. Add stacks B and C. \$ _____

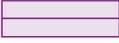
TUESDAY

1. What is the time? _____



2. $3 \times 9 = \underline{\quad} + \underline{\quad} + \underline{\quad} = 27$

3. $3 \times 4 = \underline{\quad} + \underline{\quad} + \underline{\quad} = 12$

4. This  is a top view of which object? _____



5. _____ $\times 2 = 10$,

$2 \times \underline{\quad} = 10$,

$10 \div 2 = \underline{\quad}$ and

$10 \div 5 = \underline{\quad}$



6. Take 100 away from:

(a) 392 _____

(b) 405 _____

7. Write *one thousand, one hundred* as a numeral. _____

8. How many days are in a week? _____

9. Order from lowest to highest.

$\frac{3}{4}$

1

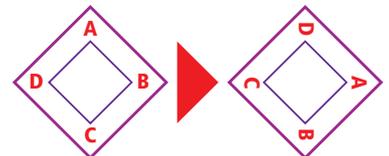
$\frac{9}{10}$

$\frac{1}{4}$

10. $1 \text{ cm} = \underline{\quad} \text{ mm}$

11. Colour one quarter of the shape. 

12. Which is the correct arrow and rotation that shows the new position? _____



A  $\frac{1}{4}$ turn

B  $\frac{1}{2}$ turn

C  $\frac{1}{4}$ turn

13. $4 + 9 =$ (a) odd even

(b) 12 13 14 15

14. $2 \text{ m} = \underline{\quad} \text{ cm}$

15. $689 = 600 + \underline{\quad}$

16. Which stack is less than \$2? _____



17. Which stack is equal to \$5? _____

18. Which stack is worth more than \$5? _____

19. Add stacks A and B. \$ _____

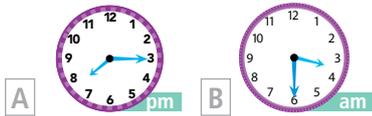
20. What is the total of all the coins? \$ _____



WEDNESDAY

THURSDAY

1. Which clock time is closer to midnight?



2. $8 \times 0 =$ _____

3. $3 \times 10 =$ _____ + _____ + _____ = 30

4. Write *nineteen hundred and nineteen* as a numeral.

5. 1050, _____, 850, 750, 650



6. _____ $\times 2 = 6$, $6 \div 2 =$ _____,

$2 \times$ _____ = 6 and $6 \div 3 =$ _____

7. (a) $12 + 10 =$ _____

(b) $22 + 10 =$ _____

8. _____ + 9 = 12

9. This  is a top view of which object? _____



10. $70 - 40 =$ _____

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

12. _____ hours = 1 day

13. (a) $20 + 80 =$ _____

(b) $200 + 800 =$ _____

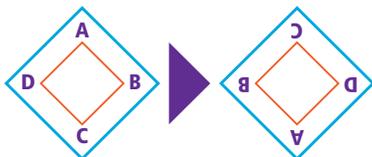
14. 100 cm = _____ m

15. Which is a season?

- cyclone heatwave
 summer climate

16. How many months are in a year? _____

17. Which is the correct arrow and rotation that shows the new position? _____



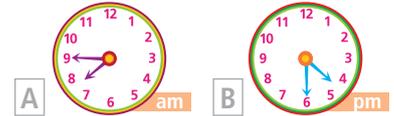
- A  $\frac{1}{4}$ turn B  $\frac{1}{2}$ turn C  $\frac{1}{4}$ turn

18. Double: (a) 8 _____ (b) 80 _____

19. $40 + 30 =$ _____

20. $2032 = 2000 +$ _____

1. Which clock time is closer to midday?



2. $2 \times 7 =$ _____ + _____ = _____

3. $100 - 30 =$ _____

4. A fair single coin was tossed with the outcomes of head, tail, tail, tail. What will be the outcome of the next toss?

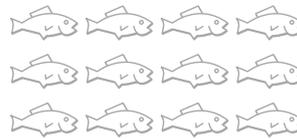
- A tail. A head.
 It is equally likely to be a head or tail.

5. $32 \div 4 =$ _____

6. _____, 1001, _____, 1021, 1031, 1041

7. (a) 5 $5 = 25$ (b) 100 $4 = 25$

8. Colour a quarter of the fish.



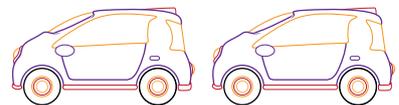
9. 1 cm = _____ mm

10. $18 \div 3 = 6$,

6 _____ $3 = 18$

11. (a) $16 - 6 =$ _____ (b) $106 - 6 =$ _____

12. Colour the car on the left.



13. 10 mm = _____ cm

14. (a) $20 + 90 =$ _____ (b) $200 + 900 =$ _____

15. _____ seconds = 1 minute

16. This  is a top view of which object? _____



17. Halve: (a) 18 _____ (b) 180 _____

18. Which line is 4 cm? _____



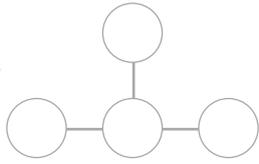
19. $30 + 5 + 900 + 3000 =$ _____

20. 300, _____, 280, 270, 260

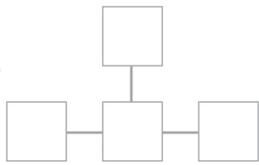
Monday

Make the numbers across and down total 12.

1. Use 3, 4, 5 and 8.



2. Use 2, 3, 7 and 9.



Tuesday

1. Natasha and Sonia read 9 books in a week. Sonia read twice as many books as Natasha.



How many books did Sonia read?

2. A chef plates 3 peas and 2 onion rings on each plate.



How many peas are there if 6 plates are served?

Wednesday

1. Tim has a counter on 59. He rolled a 4. Colour the number he landed on.

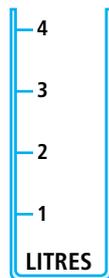


2. Tim had to move back 6 spaces on his second throw. Colour the number.

Thursday

1. Colour a $\frac{1}{4}$ of the container.
2. Gina has 88 marbles and 7 bags. She puts 10 marbles in each bag.

How many marbles are not in a bag?



MY SCORE



1 $2 \times 8 = \underline{\quad}$

- 2 Write *one thousand and ten* as a numeral.

- 3 Take 100 away from 513.

- 4 Alex caught 11 fish and gave three to his mum and two to his dad. He gave the rest to his pet crocodile, Didda.

How many fish did Didda receive? _____

- 5 _____, _____, _____
980, 960, 940

6 $90 - 30 = \underline{\quad}$

7 $21 \div 3 = 7$, $3 \square 7 = 21$



- 8 Share the ice-creams evenly between two boys.

How many per boy? _____

- 9 Which stack of coins equals \$2? _____



- 10 _____, 1000,
_____, 1002, 1003

- 11 (a) $30 + 90 = \underline{\quad}$
(b) even + even = _____

- 12 Halve 16. _____

- 13 1010, _____, 1008,
1007, 1006

14 $4 \square 5 = 20$

15 $500 + 20 + 5 = \underline{\quad}$

16 $100 - 60 = \underline{\quad}$

- 17 What is the time?

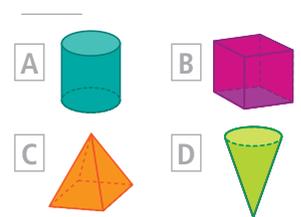
_____ pm



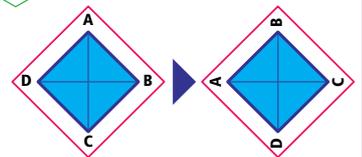
- 18 How many days are in a common year?

19 $1 \text{ m} = \underline{\quad} \text{ cm}$

- 20 This is a top view of which object?



- 21 Tick the correct rotation.



- A $\frac{1}{4}$ turn
B $\frac{1}{4}$ turn
C $\frac{1}{2}$ turn

- 22 How many days are in one fortnight?

23 $1 \text{ cm} = \underline{\quad} \text{ mm}$

24 $1 \text{ day} = \underline{\quad} \text{ hours}$

- 25 A fair single coin toss had the outcomes of tail, tail, tail. Anita said, 'The next toss has to be head'.

Lara said, 'It's going to be a tail again'.

Hugo said, 'It could be either a head or a tail'.

Who is correct?



MY SCORE



MONDAY

1. What is the time?



2. 8 lots of 2 = _____

3. $5 \times 4 =$

$4 + ___ + ___ + ___ + ___ = ______$

4. Which is the odd number: 3, 4 or 10? _____

5. Jakob has 16 cards. He equally shares them to 4 boys. Write a number sentence to show the number of cards for each boy.

$___ \div ___ = ___$

6. $9 \square 5 = 14$

7. What is the number is between 1009 and 1011?

8. Which shape(s) are coloured as $\frac{2}{4}$? _____

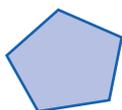


9. Who is the youngest? _____

- A Keif, born 14 May 2005.
- B Chantelle, born 20 June 2006.
- C Kiki, born 15 May 2005.

10. Who is the oldest? _____

11. Name this shape.



12. 3 cm =

- 10 mm
- 20 mm
- 30 mm
- 40 mm

13. Measure line \overline{AB} .



(a) _____ cm (b) _____ mm

14. Summer, autumn, winter and _____ are the four seasons.

15. How many days are in a common year? _____

16. How many weeks are in a year? _____

17. $207 - 10 =$ _____

18. Write the number 10 less than one thousand. _____

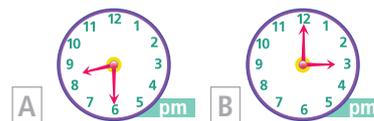
19. 6, 12, 18, 24, 30, 36, _____, 48

20. (a) $68 + 10 =$ _____

(b) $668 + 10 =$ _____

TUESDAY

1. Which clock time is closer to 6 pm?



2. $4 \times 7 =$

_____ + _____ + _____ + _____ = _____

3. What number is ten more than 990? _____

4. Using 3, 5, 2 and 8, make the:

- (a) largest odd number. _____
- (b) lowest even number. _____

5. Lisa wanted to share 15 pieces of chocolate equally among three of her friends. How many pieces for each friend? Answer as a number sentence.

6. (a) $30 \div 3 =$ _____

(b) $300 \div 3 =$ _____

7. $108 - 8 =$ _____

8. Using 3, 5, 2 and 8, make the smallest number possible.



9. Is **XXX** or **XYZ** a row? _____

10. $4 \times 3 = 2 \times$ _____

11. Draw a line 4 cm long.



12. 10 mm = _____ cm

13. Name this shape.



14. Which shape would be the best wedge for a door? _____



15. Halve: (a) 22 _____ (b) 220 _____

16. Double: (a) 7 _____ (b) 70 _____

17. _____ seconds = one minute

18. How many hours are in a day? _____

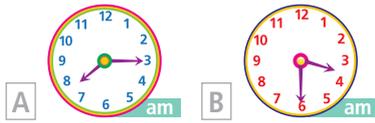
19. $30 \div ___ = 5$

20. 100 cm = _____ m



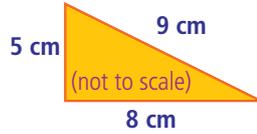
WEDNESDAY

1. Which clock time is closer to 6 am?



2. If you eat 2 eggs from one dozen, how many are left?

3. The perimeter is _____ cm.



4. (a) $97 - 10 =$ _____ (b) $97 + 10 =$ _____

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

6. Emilie has 3 groups of flower petals, each with 4 petals. How many petals in total? (Write as a number sentence.)

_____ \times _____ $=$ _____

7. How many months are in one year? _____

8. $4 \times 10 = 40$, $40 \div 10 =$ _____

9. $3 \times 8 = 24$, _____ $\div 3 = 8$

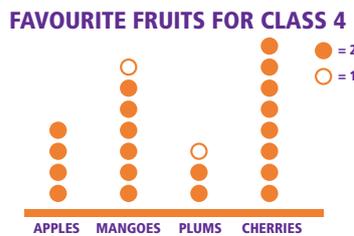
10. (a) $5 + 6 =$ _____ (b) $50 + 60 =$ _____

11. A half =

$\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{10}$ $\frac{1}{3}$

12. Write *nine thousand and nine* as a numeral. _____

13. How many children like plums?



14. Which fruit is the most popular?

15. Which fruit is the least popular? _____

16. Which is a quadrilateral?

a square a cube

17. Double $17 = 10 + 7 + 10 + 7 = 20 + 14 = 34$,

double $18 =$ _____

18. (a) $38 + 10 =$ _____

(b) $380 + 100 =$ _____

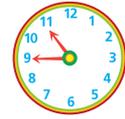
19. How many days are in one fortnight? _____

20. (a) $30 + 90 =$ _____

(b) $300 + 900 =$ _____

THURSDAY

1. What is the time? _____



2. (a) $10 + 27 =$ _____

(b) $100 + 27 =$ _____

3. $2159 = 2000 +$ _____

4. (a) $93 - 10 =$ _____ (b) $93 + 10 =$ _____

5. $4 \times 7 = 28$, $28 \div$ _____ $= 7$

6. $3 \times 8 = 8 + 8 +$ _____ $=$ _____

7. Lucy has 6 groups of shells, with 3 in each. How many shells are there in total?

_____ \times _____ $=$ _____

8. $60 \div 6 = 10$, $90 \div 9 =$ _____

9. $395 + 10 =$ _____

10. A quarter =

$\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{10}$ $\frac{1}{3}$

11. Which 2D shape has 5 sides?

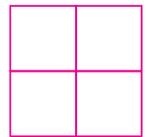
pentagon hexagon square

12. (a) $2 + 9 =$ _____ (b) $20 + 90 =$ _____

13. Mila dropped a dozen eggs, and 5 cracked. How many are left? _____

14. Label in the square.

A in the bottom left, **B** in the top right, **C** in the top left and **D** in the bottom right.



15. (a) $12 - 7 =$ _____

(b) $120 - 70 =$ _____

16. Measure line \overline{AB} with your ruler.

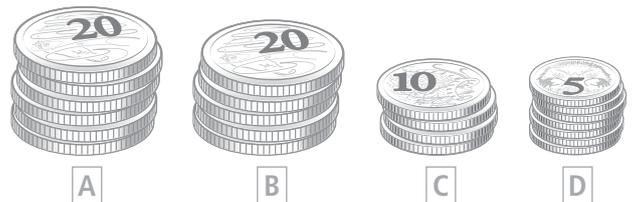


(a) _____ cm (b) _____ mm

17. Order from lowest to highest.

$\frac{1}{5}$ $\frac{1}{2}$ 1 $\frac{1}{3}$

18. Which stack of coins is worth the least amount? _____



19. Which stack is worth the most? _____

20. What is the total sum of the coins? \$ _____



PROBLEM-SOLVING

FRIDAY REVIEW

Week 2



Monday

- The total of both items was \$ _____.
- What was the kilogram price of the tomatoes?
\$ _____ per kg



Tuesday

- What was the kilogram price of the potatoes?
\$ _____ per kg
- What was the date a week before the date on the receipt?



Wednesday

- After leaving Frank's shop, Mr Murphy went to visit his grandmother. He arrived at midday.
How long since he left the shop?
_____ hour(s) and _____ minute(s)
- Mr Murphy goes to Frank's Fruit and Veg weekly.
When is the next expected visit?

Thursday

- Mr Murphy used a **\$50** note and a **\$20** note.
What was his change? \$ _____
- The shopkeeper only had and coins in the till.
What is the smallest number of coins the shopkeeper could have given Mr Murphy as his change?
\$1 _____ \$2 _____

1 3×9
= _____ + _____ + _____
= _____

2 $3 \times 6 = 2 \times$ _____

3 $4 \times 0 =$ _____

4 $80 \div$ _____ $= 10$
 $8 \times$ _____ $= 80$

5 $34 - 10 =$ _____

6 $7 + 6 =$ _____,
 $70 + 60 =$ _____

7 $24 \square 4 = 6$

8 What is the number between 2009 and 2011?

9 $4 \times 9 = 36$,
_____ $\div 9 = 4$

10 Double 19. _____

11 $3134 = 3000 +$ _____

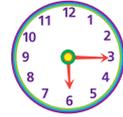
12 Order from lowest to highest.
1 $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{5}$

13 Add 10 to 695. _____

14 Which stack is worth the least amount? _____



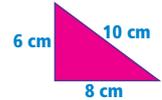
15 What is the total of stacks B and C?



16 What is the time?
_____ am

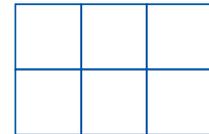
17 How many days are in a leap year?

18 What is the perimeter?



19 Summer, _____, winter and spring are the four seasons.

- 20 Label the:
- bottom right as **B**.
 - top middle as **E**.
 - top right as **Z**.



21 Using Wednesday's clocks, which is closer to midnight?

22 Is **XYZ** or **YYY** a column?



23 A hexagon has _____ sides.

24 A pentagon has _____ sides.

25 Using Wednesday's graph, how many children liked both mangoes and apples?

MY SCORE



MY SCORE

