

Challenge 1: Time

Answers

1(a) 7 hrs 12 mins (b) 6 hrs 13 mins (c) 8 hrs 15 mins (d) 3 hrs 24 mins

2(a) 7 hrs 29 mins (b) 8 hrs 21 mins (c) 8 hrs 16 mins (d) 7 hrs 02 mins
(e) 6 hrs 50 mins

3 (a) 1 hr 38 mins (b) 2 hrs 47 mins (c) 2 hrs 33 mins (d) 5 hrs 49 mins

4 (a) 4 hrs 25 mins (b) 3 hrs 18 mins (c) 1 hr 42 mins (d) 6 hrs 06 mins
(e) 2 hrs 48 mins

New Wave Mental Maths Week 30 Answers

MONDAY

1. The average of these numbers is 2.

1 2 3 0 4

2. $0.08 + 0.5 =$ 0.58

3. This is a net of a

square-based pyramid



4. $99,995 + 9 =$ 100,004

5. 16 apple quarters are 4 whole apples.

€	Quantity	Value
50	10	500
20	25	500
Total €		1,000

7. $10,000 - 3,500 =$ 6,500

8. $\frac{1}{2} - \frac{1}{3} =$ $\frac{1}{6}$ or $\frac{1}{6}$

9. What 2-D shape can you see in the cross-section?

rectangle



10. $5.75 \times 3 =$ 17.25

11. 10% of 70 = 7

12. $76.52 - 21.36 =$ 55.16

13. The place value of the 7 in 65.724 is

tenths. hundredths. thousandths.

14. $7 \times 0.3 =$ 2.1

15. $€50.00 - €29.00 = €$ 21

16. $2 \times 2 \times 3 =$ 12

17. A floor is 5 m by 6 m. How many square metres of tiles are needed to cover it?

30 m²

18. Which letter is symmetrical?

J N Z V

19. Write the problem as a number sentence and solve it. Kate has 35 stickers. She gives 7 to Tim.

35 - 7 = 28

20. $\frac{7}{8} =$ $8\frac{1}{8}$

TUESDAY

1. The average of these numbers is 16.

20 10 15 30 5

2. $100,000 + 342,000 =$ 442,000

3. $2.75 \times 4 =$ 11.00

4. $5 \times 12 \times 200 =$ 12,000

5. $\frac{1}{3}$ of 100 = 30

6. $0.2 =$ 20 %

7. $4 \text{ kg} + 3,000 \text{ g} =$ 7 kg

8. Kieran had €3 in  coins. How many coins in total?

30

9. Draw a 270° turn clockwise.



10. $\frac{1}{2} - \frac{1}{3} =$ $\frac{1}{6}$ or $\frac{1}{6}$

11. 10% of 90 = 9

12. $1.2 \times 5 =$ 6

13. Which angle is obtuse? a b



14. Write as a number sentence and solve it. Add 60 apples to 70 apples.

60 + 70 = 130

15. $€50.00 - €27.25 = €$ 22.75

16. How many fifths in a whole? 5

17. $16,000 - 8,500 =$ 7,500

18. Simplify $\frac{1}{2}$. $\frac{1}{2}$






19. Tick which shape's angles add up to 180°.




20. Area = 16 m²




WEDNESDAY

1. The average of these numbers is 100.
50 0 150 200 100
2. Write the number before 19,000. 18,999
3. Area = 12 m².

4. Write as a number sentence and solve it. Jane shared 90 sweets among six people.
 $90 \div 6 = 15$
5. $6.45 \times 2 = 12.9$
6. $\frac{7}{20} = \frac{8}{20}$
7. $98.25 - 23.61 = 74.64$
8. The place value of the 8 in 36.008 is
 tenths. hundredths. thousandths.
9. Which letter is not symmetrical? Z A T K
10. 75% of 40 = 30
11. $(25 \div 5) - 3 = 2$
12. This angle is likely to be
 80°. 90°. 60°. 100°.
13. Colour $\frac{3}{10}$.

14. Write the decimal eight-tenths. 0.8
15. €50.00 - €31.00 = € 19.00
16. Which shape is a pentagon?
   
17. Write 10.30 p.m. in 24-hour time.
22.30 hours
18. $15,000 - 4,500 = 10,500$
19. How many degrees has a right angle? 90 °
20. Write 2 a.m. in 24-hour time.
02:00 hours

THURSDAY

1. The average of these numbers is 8.
8 4 7 9 12
2. A tetrahedron has 4 vertices.
3. $30 \times 50 = 1,500$
4. $5 \times 9 \times 200 = 9,000$
5. $1,500 - 900 = 600$
6. The value of the abacus is 103,201.

7. Write as a number sentence and solve it. Mike runs 100 metres 5 times. How far does he run altogether?
 $100 \text{ m} \times 5 = 500 \text{ m}$
8. Write the number before 100,010.
100,009
9. $\frac{5}{6}$ of 18 = 15
10. Use \downarrow or \uparrow or $=$.

11. Eight pizza quarters make 2 whole pizzas.
12. $\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$
13. $8.25 \times 4 = 33$
14. Circle the net that will make a cube.

15. Simplify $\frac{3}{6}$. $\frac{1}{2}$
16. €50.00 - €37.50 = € 12.50
17. $900 + 80 + 9 + 1,000 = 1,989$
18. $3 \times 3 \times 3 = 27$
19. 75% of 80 = 60
20. Share €90.00 among 6 people, where one receives €30.00, and the others 5 equal amounts.
 The others will receive € 12

PROBLEM-SOLVING

Monday

1. Colour 25%.



2. Colour 75%.



Tuesday

1. Balance the scales using 30 kg and 10 kg weights.



2. Draw the other half of this image.



Wednesday

1. Which tetromino has symmetry?



2. An electric car travels 50 km on half an hour of charge. How many kilometres is possible with $6\frac{1}{2}$ hours of charge?

650 km

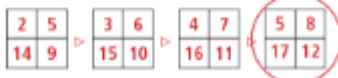
Thursday

1. What is the size of the angle?

90 °



2. Complete the pattern.



FRIDAY REVIEW

- The average of these numbers is 8.
 $16 \quad 4 \quad 8 \quad 12 \quad 0$
- $0.5 + 0.02 + 3 = \underline{3.52}$
- Write the number before 99,000.
98,999
- This is a net of a hexagonal pyramid.
- $50 \times 40 = \underline{2,000}$
- $\frac{5}{100} = 0.\underline{05}$
- Eight apple quarters are how many apples?
2
- What is the size of the angle?
100 °
- $5 \times 0.03 = \underline{0.15}$
- $2 \times 3 \times 4 = \underline{24}$
- $\frac{2}{3} - \frac{1}{3} = \underline{\frac{1}{3}}$
- $5.45 - 1.3 = \underline{4.15}$
- How many edges has a square-based pyramid?
8
- Draw a 90° turn clockwise.
- $12,000 - 6,500 = \underline{5,500}$
- Write as a number sentence and solve it. Add 70 apples to 80 apples.
 $70 + 80 = \underline{150}$
- $79.28 - 52.63 = \underline{26.65}$
- 10% of 90 = 9
- $\frac{1}{3}$ of 27 = 12
- $63 - 8 = \underline{15} + 40$
- Draw the other half.
- 75% of 60 = 45
- $36 \times 5 \times 200 = \underline{36,000}$
- The value of the abacus is 150,203.
- A triangular prism consists of 2 triangles and 3 rectangles.