

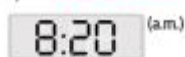
Challenge 1 Answers

A 21 457	B 68 445	C 32 349	D 14 182
E 124 869	F 7 387	G 2 026	H 167 402
I 12 139	J 128 502	K 121 845	L 161 423
M 145 352	N 119 641	O 10 731	P 82 660
Q 38 004	R 76 510	S 107 622	T 19 646
1. 5241 trees			
2. 2886 people			
3. €6.57			
4. 2142 pages			
5. 57 cattle			

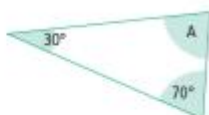
Week 25

MONDAY

1. Time? (24-hour) 08:20 hours

 8:20 (a.m.)

2. Angle A = 80 °



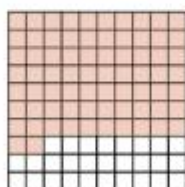
3. $\frac{2}{6} + \frac{3}{6} = \frac{5}{6}$

4. $\frac{3}{4}$ of 12 = 9

5. $99,998 + 7 = \underline{10,005}$

6. $6 \times 0.7 = \underline{4.2}$

7. Colour $\frac{27}{100}$.



8. $35,505 - 9 = \underline{35,496}$

9. The clock hand from 3 to 7 rotates 120 °.



10. $1\% = 0.01$

11. $3 \overline{)67.2} = \underline{22.4}$

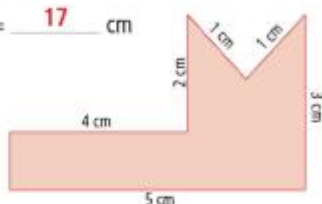
12. Simplify $\frac{6}{12}$. $\frac{1}{2}$

13. How many lines of symmetry? 2



14. $\frac{7}{100} = 0.07$

15. Perimeter = 17 cm



16. This book was €10, now it costs € 5.



17. What 2-D shape would you see in the cross-section? rectangle



18. $(10 \times 4) + 8 = \underline{48}$

19. 50% of 40 = 20

20. $17 \times 25 \times 4 = \underline{1,700}$

TUESDAY

1. Time? (24-hour) 22:15 hours

 10:15 (p.m.)

2. $64 \div \underline{8} = 8$

3. Luke earns €125 per day. How much does he earn in 5 days? € 625

4. Round 9,384 (nearest thousand). 9,000

5. Draw a 270° turn anticlockwise.



6. $100 - 25 - 25 - 25 = \underline{25}$

7. Diameter is 6 cm, so the radius is 3 cm.

8. $\frac{15}{100} = 0.15$

9. This is a net of a _____

hexagonal pyramid



10. Write in descending order.

15, 1.5, 1.05, 0.15

11. The place value of the 8 in 24.85 is tenths. hundredths.

12. 50% of 18 = 9

13. $\frac{2}{3}$ of 9 = 6

14. $10 \times 40 = 400$

$10 \times 4 = 40$

$10 \times 0.4 = \underline{4}$

15. This book was €50, now it costs € 25.



16. Angle A = 70 °



The pie chart shows pets owned by 5th Class pupils.



17. 5 pupils own dogs. How many own cats? 5

18. How many own fish? 10

19. How many own dogs and fish? 15

20. How many pets altogether? 20

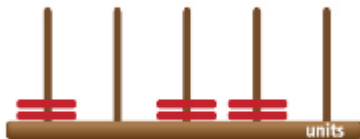
WEDNESDAY

1. Time? (24-hour) 00:05 hours

12:05 (a.m.)

2. $\frac{2}{4} + \frac{3}{10} = \frac{8}{10}$ or $\frac{4}{5}$

3. The value of the abacus is 20,220.



4. Simplify $\frac{4}{8}$. $\frac{1}{2}$

5. $99,999 + 5 =$ 100,004

6. $29,909 - 10 =$ 29,899

7. $(8 \times 5) + 8 =$ 48

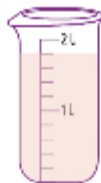
8. What is the diameter of a circle, if the radius is 3.5 cm?

7 cm

9. $\frac{6}{20} = \frac{12}{40}$

10. $3\% = 0.$ 03

11. Colour 1,800 mL.



12. $10,000 - 350 - 450 =$ 9,200

13. $6 \overline{)70.2} =$ 11.7

14. $\frac{12}{100} = 0.$ 12

15. 0, 11, 23, 36, 50, 65

16. What type of triangle is this?

isosceles equilateral scalene



17. 50% of 100 = 50

18. $24.06 + 53.92 =$ 77.98

19. The book was €80,
now it costs € 60.



20. Round 338,960 (nearest thousand).

339,000

THURSDAY

1. Time? (24-hour) 12:10 hours

12:10 (p.m.)

2. How many degrees is this angle likely to be?

90° 135°

18° 45°



3. $\frac{50}{100} =$ 50 %

4. Write the number before 12,000. 11,999

5. $99,997 + 9 =$ 100,006

6. $\frac{1}{3} + \frac{4}{17} =$ $\frac{2}{3}$

7. Round 9,035 to the nearest 1,000.

9,000

8. $\frac{1}{2} < \frac{1}{5}$ True False

9. $80 \div$ 8 = 10

10. This triangle is

scalene. isosceles.



11. Write the numeral four hundred and forty thousand and four.

440,004

12. Parallelogram = 0 lines of symmetry



13. $12.93 + 25.24 =$ 38.17

14. Draw the vertical and horizontal lines of symmetry.



15. Half of 90 = $5 \times a$, therefore $a =$ 9

16. $12^2 =$ 144

17. Diameter is 8 cm, so the radius is 4 cm.

18. 50% of 14 = 7

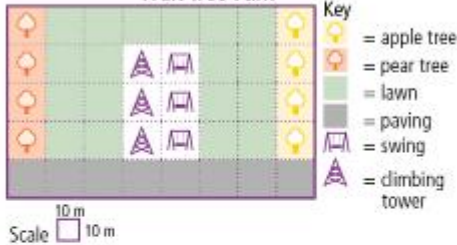
19. $\text{€}50.00 - \text{€}30.80 = \text{€}$ 19.20

20. The value of the abacus is 31,204.



PROBLEM-SOLVING

Monday Fruit Tree Park



Scale \square 10 m

1. What is the perimeter of the paving?
180 m
2. What is the area of the swings and climbing towers? 600 m²

Tuesday

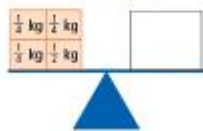
1. If there are 12 apple trees for each 100 m², how many apple trees are in the park?
48
2. A lawnmowing contractor charges €2 per 10 m². How much will it cost to cut all the grassed area?
€ 360

Wednesday

1. A contractor charges €2 for every 10 m length to trim the lawn edges. What is the total price for the edges to be cut?
€ 52
2. What is the chance of randomly selecting a King?
2 in 5



Thursday



1. Which weight will balance the scales?
 1 kg $1\frac{1}{4}$ kg $1\frac{1}{2}$ kg
2. What will be the total weight on the scales when it is balanced?
 $2\frac{1}{4}$ kg

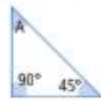
FRIDAY REVIEW

1. Time? (24-hour)

00:05 hrs

12:05 (a.m.)

2. Angle A = 45 °



3. 5, 11, 18, 26, 35

4. Simplify $\frac{8}{18}$. $\frac{4}{9}$

5. $\frac{2}{6} + \frac{2}{12} = \frac{3}{4}$

6. Round 25,010 to the nearest 100.
25,000

7. $(5 \times 6) + 8 = \underline{38}$

8. 50% of 16 = 8

9. €50.00 – €20.80
= € 29.20

10. Jessica earns €155 per day. How much does she earn in 5 days?

€ 775

11. The difference between 2 numbers is 2. Their product is 80. The numbers are
10 and 8

12. The value of the abacus is

20,450



13. $4\% = 0.\underline{04}$

14. $9^2 = \underline{81}$

15. The book was €15, now it costs

€ 7.50



16. $\frac{1}{2} < \frac{1}{3}$

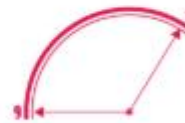
True False

17. Name this shape.

nonagram



18. The clock hand rotates 120 ° from 9 to 1.



19. $24.06 + 15.28$

= 39.34

20. Draw the 2 lines of symmetry.



21. Half of 70 = $5 \times \underline{7}$

22. $10 \times 0.7 = \underline{7}$

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

rectangle



24. 6 pupils own cats. How many own hamsters?

6

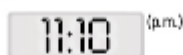
25. How many pets altogether?

24

Week 26

MONDAY

1. Time? (24-hour) 23:10 hours



2. $6 \times 9 \times 2 =$ 108

3. $0.1 =$ 10 %

4. $35 = \frac{1}{3}$ of 70

5. Diameter = 9 cm, Radius = 4.5 cm

6. $10 \times 170 =$ 1,700

7. A tetrahedron has 4 faces.



8. Draw a 180° turn clockwise.



9. 5, 10, 30, 120, 600

10. $5 \overline{)23.5} =$ 4.7

11. Write the number after 9,999. 10,000

12. How many vertices has a triangular prism?

6



13. If you picked one of these letters out of a hat, what are the chances of picking an E?

2 out of 6

R E E Y R C

14. $(7 \times 5) + 10 =$ 45

15. Which prime number is also the only even prime number? 2

The pie chart shows the eye colours of 5th Class pupils.



16. 6 pupils have green eyes.
How many pupils have blue eyes? 6

17. How many pupils have blue eyes and green eyes? 12

18. How many pupils have brown eyes? 9

19. How many pupils have grey eyes? 3

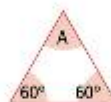
20. How many more pupils have brown eyes than green eyes? 3

TUESDAY

1. Time? (24-hour) 05:20 hours



2. Angle A = 60 °



3. $0.01 =$ 1 %

4. $10,005 - 8 =$ 9,997

5. $0.4 + 0.04 =$ 0.44

6. Round 75,152 to the nearest 1,000.

75,000

7. $\frac{3}{5}$ of 20 = 12

8. $(18 \div 2) + 1 =$ 10

9. 25% of 20 = 5

10. 1, 10, 100, 1,000, 10,000

11. $24 \div$ 4 = 6

12. $\frac{7}{10} = 0.$ 7

13. The value of 20  coins and 20  coins.

€ 42

14. The book was €49, now it costs € 24.50.



15. $\frac{1}{4} =$ 25 %

16. Colour $\frac{4}{5}$.



17. Is **N** symmetrical? no

18. $16.85 + 12.92 =$ 29.77

19. Which temperature is coldest?

0°C -3°C 1°C

20. Four pizza halves are 2 whole pizzas.

WEDNESDAY

1. Time? (24-hour) 00:35 hours



2. $(14 \div 2) + 3 =$ 10

3. 25% of 100 = 25

4. $10,007 - 9 =$ 9,998

5. The sum of 10  coins and 10  coins
= € 22

6. $2,900 \times 10 =$ 29,000

7. $29 = \frac{1}{2}$ of 58

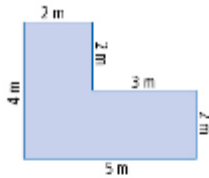
8. You need to order new carpet for your classroom, which measures 8 m by 7 m. How much carpet?
56 m²

9. $\frac{3}{4} =$ 75 %

10. $0.9 + 0.09 =$ 0.99

11. $12 \div$ 2 = 6

12. Perimeter = 18 m



13. Suzy earns €180 per day. How much does she earn in 5 days?

€ 900

14. The number after 150,999 is 151,000.

15. $4 \overline{)82.8} =$ 20.7

16. Which letter is symmetrical? E

F G E N

17. How many degrees? 180 °



18. The value of the 3 in 24.035 is

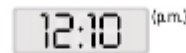
0.003 0.03

19. Four $\frac{1}{4}$ pizza pieces are 3 whole pizzas.

20. $9.65 - 3.24 =$ 6.41

THURSDAY

1. Time? (24-hour) 12:10 hours



2. $0.7 + 0.07 =$ 0.77

3. Round 17,563 to the nearest 1,000.
18,000

4. $(9 \div 3) + 3 =$ 6

5. $\frac{4}{10}$ of 70 = 28

6. $\frac{3}{4} = 0.$ 75

7. $10,002 - 9 =$ 9,993

8. $400 \div 40 =$ 10

9. $\frac{17}{4} =$ (mixed number) $4\frac{1}{4}$

10. 25% of 40 = 10

11. $0.04 > 0.4$ True False

12. $\frac{4}{10} = 0.$ 4

13. The place value of the 9 in 28.039 is

hundredths. thousandths.

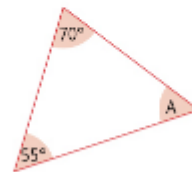
14. $4\frac{4}{7} =$ (improper fraction) $\frac{32}{7}$

15. What is the place value of the 0 in 210,144?
thousands

16. $47 \times 25 \times 4 =$ 4,700

17. $\frac{1}{4}$ km + $\frac{1}{2}$ km = 750 m

18. Angle A = 55 °



19. Six pizza halves are 3 whole pizzas.

20. If you stack triangles flat on top of one another, what 3-D shape will you make?

triangular prism

PROBLEM-SOLVING

Monday

- A strawberry farm had 8,400 plants in total. There were 7 rows of 600 plants and 14 rows of 300 plants.
- What is the value of 15 ten thousands, 20 thousands and 15 hundreds?
171,500

Tuesday

Race times for two 60-m sprinters.



What is the time difference between

- A to B? $-$ 0.7 seconds
- B to A? $+$ 0.7 seconds

Wednesday

Race times for two 60-m sprinters.



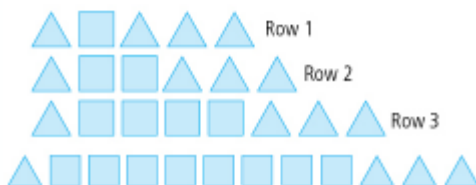
What is the time difference between

- A to B? $+$ 1 seconds
- B to A? $-$ 1 seconds

Thursday

- The difference between 2 numbers is 3. Their product is 54. The numbers are 9 and 6.

- Draw Row 4.



FRIDAY REVIEW

- Time? (24-hour)

00:50 hours hrs



- $(9 \times 7) + 7 =$ 70

- $\frac{4}{10}$ of 90 = 36

- Draw a 180° turn anticlockwise.



- Write in descending order.

0.13 0.02 0.3 0.05

0.3 0.13

0.05 0.02

- $0.5 + 0.05 =$ 0.55

- Write the number before 100,000.

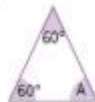
99,999

- $0.02 =$ 2 %

- $9,008 - 9$

= 8,999

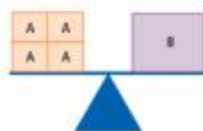
- Angle A = 60 °



- Balance the scales.

A = $\frac{3}{5}$ kg

B = 2,400 g



- Which temperature is coldest?

-4°C 0°C

2°C -3°C

- $0.09 > 0.1$

True False

- $(24 \div 4) + 4 =$ 10

- The value of 15  coins and 15  coins.
€ 33

- $0.09 + 0.9 =$ 0.99

- 25% of 80 = 20

- $32 \div$ 4 = 8

- The place value of the 5 in 14.025 is

hundredths.

thousandths.

- Colour $\frac{3}{4}$.



- How many degrees?

180 °



- If you stack pentagons flat on top of each other, what 3-D shape will they make?

pentagonal

prism

- If you have 4 red marbles and 5 blue marbles in a jar, what are the chances of picking a red marble?

4 out of 9

- Eight pizza halves are

equal to 4 whole pizzas.

- What 3-D shape has 1 flat face and 1 curved surface?

hemisphere