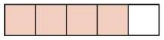
# MENTAL MATHS

WEEK 32

## MONDAY

1. 20% of €50 = € 10
2. 2.54 × 3 = 7.62
3. Colour 80%.



4. 999,992 + 9 = 1,000,001
5. Jeans cost €30. There is 10% off. The new price is € 27 .
6. 189,001 – 7 = 188,994
7. Write the numeral one million.

   1,000,000
8. $\frac{8}{10} - \frac{2}{5}$ = $\frac{4}{10}$ or $\frac{2}{5}$
9. 5.45 × 2 = 10.90
10. 10% of €100 = € 10
11. $5\overline{)6.005}$ = 1.201
12. €100.00 – €20.50 = € 79.50
13. $\frac{3}{4}$ of 36 = 27
14. $\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$ = (mixed number) $1\frac{1}{4}$
15. $\frac{43}{100}$ = 43 %
16. 3.00 × 0.03 = 0.09
17. Draw a 180° turn anticlockwise.

18. odd + even = odd
19. 0.07 + 0.2 = 0.27
20. What is the diameter and side length of the square?

    5 cm

## TUESDAY

1. 50% of €50.00 = € 25
2. 999,993 + 8 = 1,000,001
3. 224 + 16 + 16 + 34 = 290
4. 3.92 × 3 = 11.76
5. $10\overline{)300}$ = 30
6. 268,808 – 10 = 268, 798
7. Write the numeral one million one hundred.

   1,000,100
8. Draw a 270° turn clockwise.

9. What 3-D shape has 4 triangles?

   triangular pyramid
10. even + even = even
11. €100.00 – €40.50 = € 59.50
12. $\frac{3}{4} = \frac{9}{12}$
13. Which set has multiples of 3 and 4?

    ☐ 9, 12, 16 ☐ 8, 12, 16

    ☑ 12, 24, 36 ☐ 18, 24, 36
14. 5.402 + 6.253 + 7.314 = 18.969
15. Write in ascending order.

    7, 0.07, 70, 0.7

    0.07, 0.7, 7, 70
16. $\frac{4}{5}$ of 40 = 32
17. 5% = $\frac{5}{100}$
18. Simon has 48 toy cars. He gives 5 to Ahmed. How many does Simon have left?

    48 – 5 = 43
19. $\frac{4}{5} + \frac{4}{5} = \frac{8}{5}$ = $1\frac{3}{5}$
20. Perimeter of a rectangular building 50 m by 45 m

    = 190 m

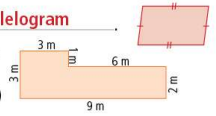
## WEDNESDAY

1. 10% of €50 = € 5
2. If you ride your bike for a quarter of an hour and travel 4 km, how far will you ride in 2 hours?

   32 km
3. An isosceles triangle has 2 equal sides.
4. $\frac{2}{3} + \frac{2}{3}$ = $\frac{4}{3}$ = $1\frac{1}{3}$
5. even – odd = odd
6. 4.85 × 4 = 19.40
7. The number after 1,001,999 is 1,002,000 .
8. €100.00 – €80.50 = € 19.50
9. Stacey has €12, John has €15 and Karen has €18. How much altogether? Write as a number sentence.

   € 12 + € 15 + € 18

   = € 45
10. This is a parallelogram .
11. Area = 21 m²




12. $\frac{18}{5}$ = (mixed number) $3\frac{3}{5}$
13. What is the value of 3 × €50, 3 × €20, 3 × €10 and 3 × €2?

    € 246
14. 100,000 + 695,475 = 795,475

This timetable shows daily trains from Waterford to Dublin.

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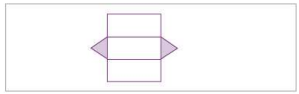
15. How long does Train A take? 3.05
16. Which train takes 3 hours 10 minutes? C
17. Which train leaves Waterford at 3 p.m.? C
18. Which train arrives in Dublin at 1.30 p.m.? B
19. You need to be in Dublin by 3.30 p.m. Which train should you take? B
20. You need to be in Dublin by 5.30 p.m. Does Train C get you there on time? no

## THURSDAY

1. 5% of €50 = € 2.50
2. Draw a net of a triangular prism.



3. The number before 1,010,000 = 1,009,999
4. $\frac{3}{4}$ of 48 = 36
5. 999,996 + 7 = 1,000,003
6. 63 ÷ 9 = 70 ÷ 10
7. 32 = 8 × 4
8. Jumpers cost €40. There is 25% off.

   The new price is € 30 .
9. $\frac{2}{3}$ of 27 = 18
10. Write in descending order.

    30, 0.3, 3.3, 0.03

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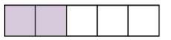
11. $\frac{9}{12} - \frac{3}{6}$ = $\frac{3}{12}$ or $\frac{1}{4}$
12. Colour $\frac{4}{10}$.



13. $10\overline{)450}$ = 45
14. What shape is this?

    nonagon

15. There are 6 apples in each bag. There are 10 bags. How many apples altogether?

    6 x 10 = 60
16. 5 × 7 × 200 = 7,000
17. $\frac{1}{4} + \frac{3}{6}$ = $\frac{3}{4}$
18. 995,000 + 100,000 = 1,095,000
19. 15,000 – 6,500 = 8,500
20. What is the place value of the 8 in 7.8?

    tenths

# PROBLEM-SOLVING

## Monday

1. A flight from Dublin to Paris, one way, cost €150. The return flight cost an additional €250. What was the total cost of Dublin → Paris → Dublin for a family of 4?

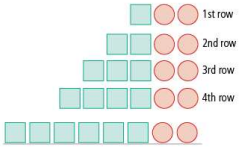
   € 1,600

2. Sam baked 3 cakes with a total of 16 corners. What 2-D shapes could there have been?

   teacher check

## Tuesday

1. Draw the 6th row.




2. An Olympic swimmer completed a 5-km morning session in a 50-m pool. How many laps in total?

   100

## Wednesday

1. A group of 200 pupils were surveyed. How many preferred spring?

   50

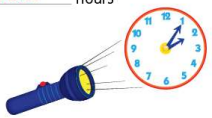
2. How many liked summer and winter?

   150

## Thursday

1. Hugo shone his torch in the dark to see what time it was. Write the time in 24-hour format.

   02:05 hours



2. What 4 coins can be used to make €2.90?

   €2, 50c, 20c and 20c

# FRIDAY REVIEW

1. 20% of €60

   = € 12

2. 5th Class has 32 pupils. How many like funny books?

   8

3. 990,000 + 100,000

   = 1,090,000

4. Colour 60%.

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

6. 70 × 90 = 6,300

7. 15,000 – 9,500

   = 5,500

8. $\frac{9}{10} - \frac{1}{5} = \frac{7}{10}$

9. $10\overline{)400}$ = 40

10. Which set has multiples of 4 and 6?

    - ☐ 12, 16, 18
    - ☐ 12, 18, 24
    - ☑ 12, 24, 36
    - ☐ 12, 16, 28

11. The place value of the 3 in 2.3

    = tenths

12. 100 = 50 × 2

13. There are 15 sweets in a packet. There are 5 packets. How many sweets altogether?

    15 x 5

    = 75

14. If you bought 2 L of milk at 90c per 500 mL, how much would it cost?

    € 3.60

15. 3.412 + 2.035 + 1.432

    = 6.879

16. $\frac{63}{100}$ = 63 %

17. Write the numeral one million, one hundred and one.

    1,000,101

18. 5 × 9 × 200 = 9,000

19. Write in ascending order.

    9 0.09 0.9 0.19

    0.09, 0.19,

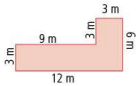
    0.9, 9

20. 4.25 × 5 = 21.25

21. This is a

    kite.

22. Area = 45 m²




23. Perimeter = 36 m

24. Draw a 90° turn clockwise.

25. $\frac{29}{6}$ = (mixed number)

    $4\frac{5}{6}$

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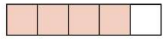

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17. Draw a 180° turn anticlockwise.

18. odd + even = odd
19. 0.07 + 0.2 = 0.27
20. What is the diameter and side length of the square?

    5 cm

① 20% of €50

$20\% = \frac{20}{100} = \frac{1}{5}$

$\frac{1}{5}$ of €50 = €10

③ $80\% = \frac{80}{100} = \frac{4}{5}$

⑤ Jeans cost €30, 10% off

$10\% = \frac{10}{100}$

$\frac{1}{10}$ of €30 = €3 ..... off

€30 - €3 = €27

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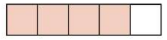

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    5 cm

8. $\frac{8}{10} - \frac{2}{5} = \frac{4}{5} - \frac{2}{5} = \frac{2}{5}$

$\frac{8}{10} \overset{\div 2}{=} \frac{4}{5}$ ↗

13. 3/4 of 36

$\frac{1}{4}$ of 36 ; $36 \div 4 = 9$

$\frac{3}{4} = 9 \times 3 = 27$

14. $\frac{5}{4} = \frac{4}{4} + \frac{1}{4} = 1 + \frac{1}{4} = 1\frac{1}{4}$

18. Odd + Even = Odd

3 + 4 = 7

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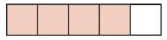

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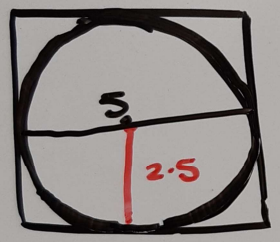


diameter = 2 × radius

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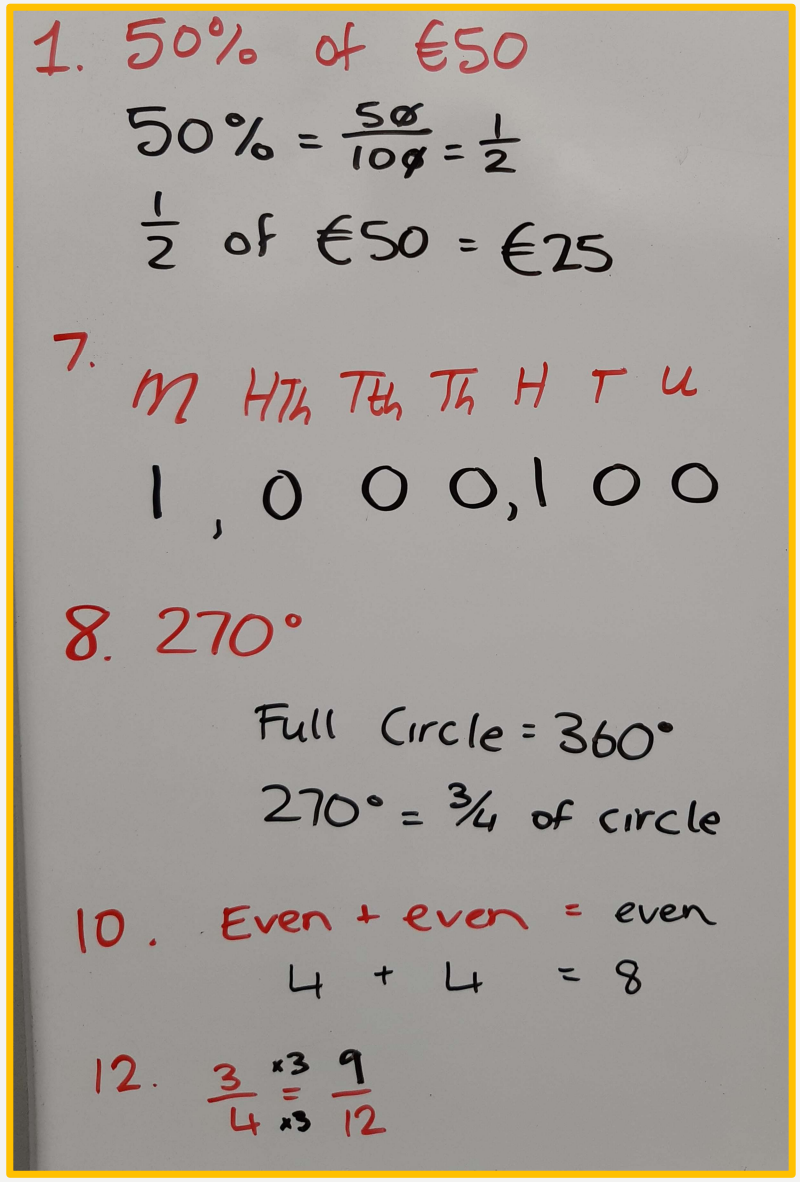

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13. Multiples of 3: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36

Multiples of 4: 4, 8, 12, 16, 20, 24, 28, 32, 36

Common to both: 12, 24, 36

15. Ascending (gets bigger)

| T | U · t | h |
|---|---|---|
| | 7 ③ | |
| | 0 · 0 | 7 ① |
| 7 | 0 ④ | |
| | 0 · 7 | ② |

16. $\frac{4}{5}$ of 40

$\frac{1}{5}$ of 40 ; 40 ÷ 5 = 8

$\frac{4}{5}$ = 8 × 4 = 32

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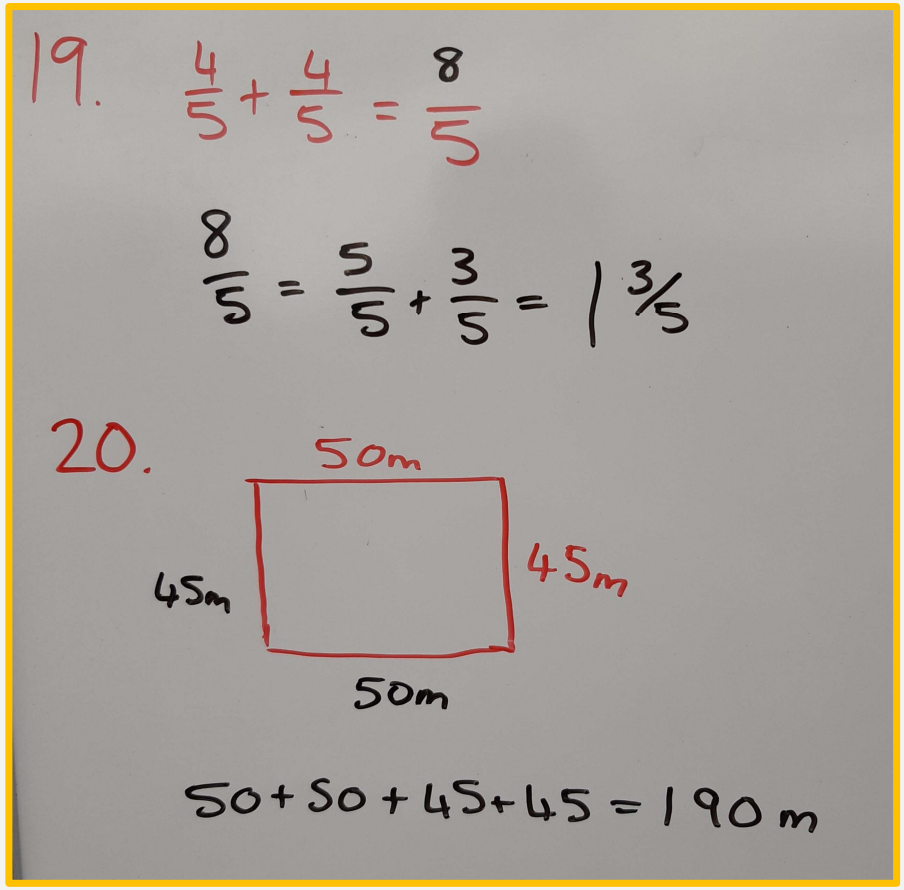

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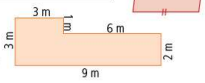
11. Area = 21 m² 

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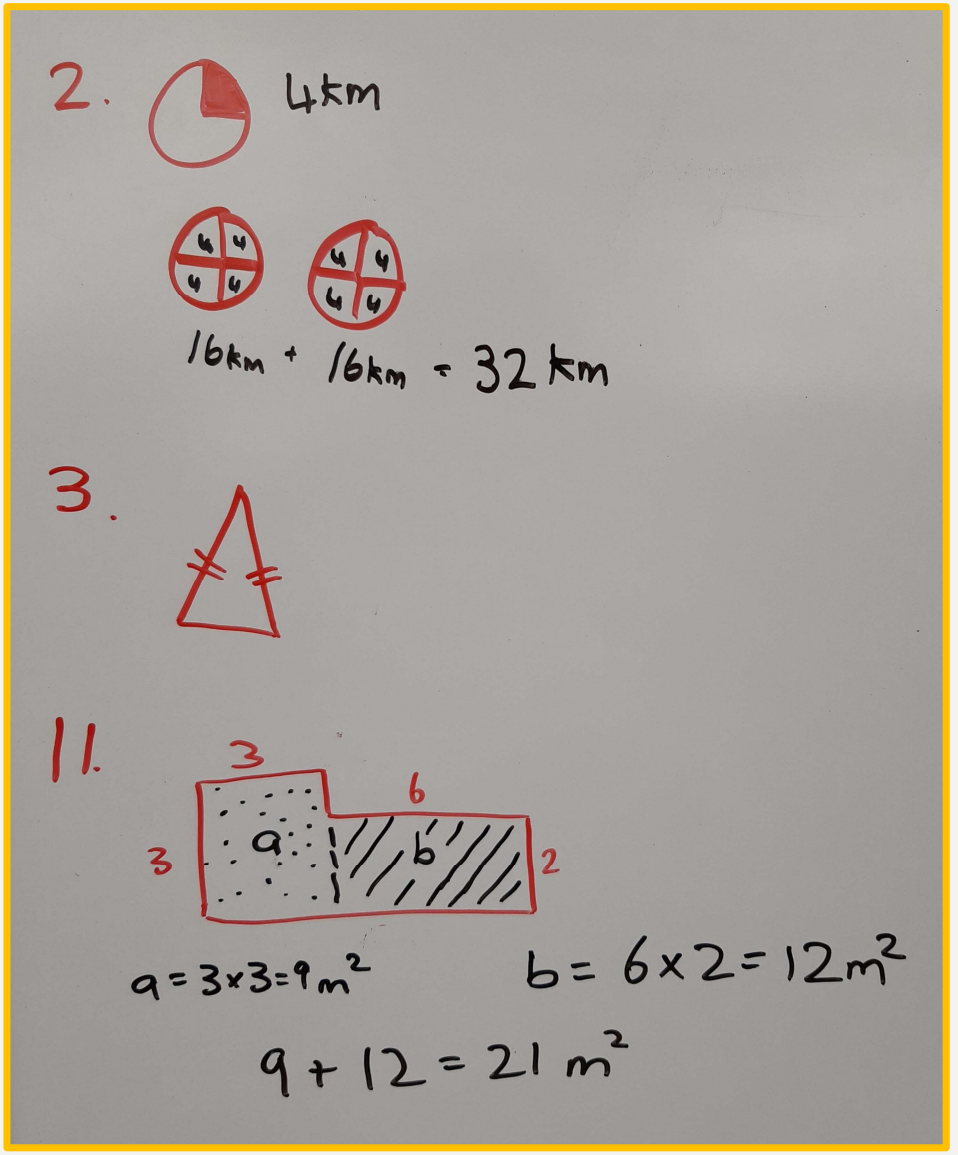

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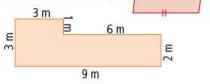



12. $\frac{18}{5}$ = (mixed number)
    $3\frac{3}{5}$
13. What is the value of 3 × €50, 3 × €20, 3 × €10 and 3 × €2?
    € 246
14. 100,000 + 695,475 = 795,475

This timetable shows daily trains from Waterford to Dublin.

| Train | Departs Waterford | Arrives Dublin |
|---|---|---|
| A | 08:00 | 11:05 |
| B | 10:25 | 13:30 |
| C | 15:00 | 18:10 |
| D | 19:30 | 22:35 |

15. How long does Train A take? 3.05
16. Which train takes 3 hours 10 minutes? C
17. Which train leaves Waterford at 3 p.m.? C
18. Which train arrives in Dublin at 1.30 p.m.? B
19. You need to be in Dublin by 3.30 p.m. Which train should you take? B
20. You need to be in Dublin by 5.30 p.m. Does Train C get you there on time? no

12. $\frac{18}{5} = \frac{5}{5} + \frac{5}{5} + \frac{5}{5} + \frac{3}{5} = 1+1+1+\frac{3}{5} = 3\frac{3}{5}$

or

18 ÷ 5 = 3 r 3

$3\frac{3}{5}$

13. 3×€50 3×€20 3×€10 3×€2

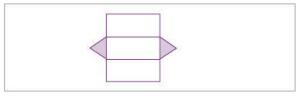
€150 + €60 + €30 + €6

= €246

| A | B | C | D |
|---|---|---|---|
| 11:05 | 13:30 | 18:10 | 22:35 |
| - 3:00 | -10:25 | -15:00 | 19:30 |
| 8:05 | 3:05 | 3:10 | 3:05 |

## THURSDAY

1. 5% of €50 = € 2.50
2. Draw a net of a triangular prism.



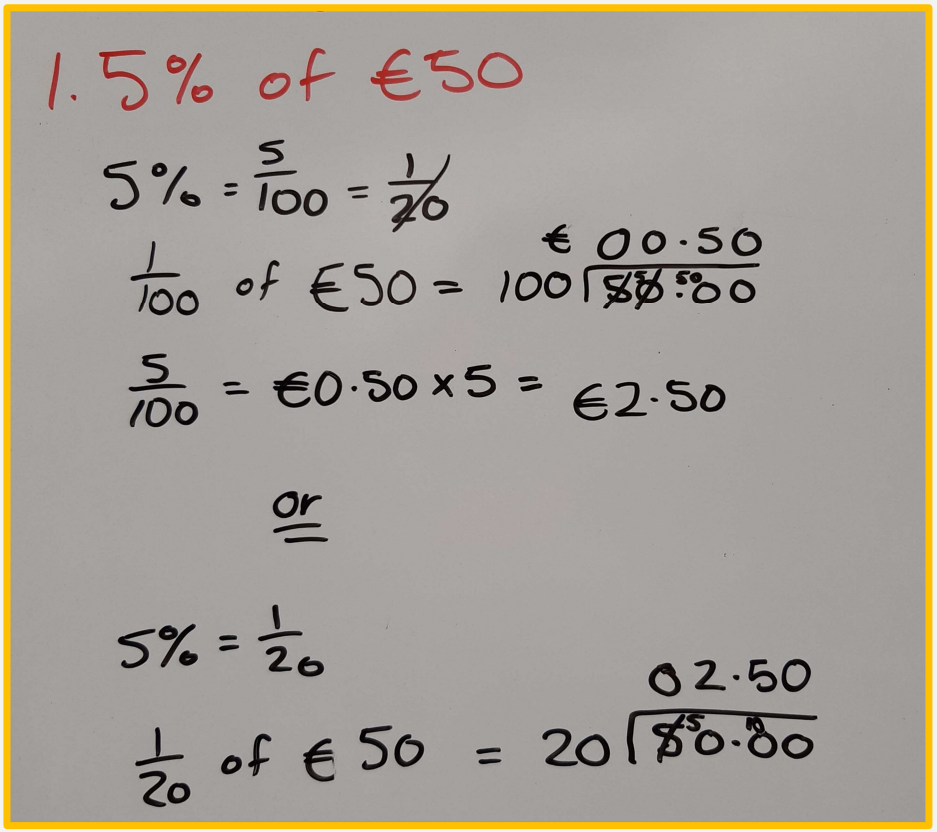
3. The number before 1,010,000 = 1,009,999
4. $\frac{3}{4}$ of 48 = 36
5. 999,996 + 7 = 1,000,003
6. 63 ÷ 9 = 70 ÷ 10
7. 32 = 8 × 4
8. Jumpers cost €40. There is 25% off.
   The new price is € 30.
9. $\frac{2}{3}$ of 27 = 18
10. Write in descending order.

    30 0.3 3.3 0.03

    30, 3.3, 0.3, 0.03
11. $\frac{9}{12} - \frac{3}{6} = \frac{3}{12}$ or $\frac{1}{4}$
12. Colour $\frac{4}{10}$.

13. $10\overline{)450}$ = 45
14. What shape is this?
    nonagon

15. There are 6 apples in each bag. There are 10 bags.
    How many apples altogether?
    6 x 10 = 60
16. 5 × 7 × 200 = 7,000
17. $\frac{1}{4} + \frac{3}{6} = \frac{3}{4}$
18. 995,000 + 100,000 = 1,095,000
19. 15,000 – 6,500 = 8,500
20. What is the place value of the 8 in 7.8?
    tenths



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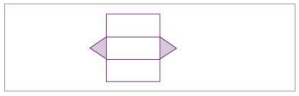

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    tenths

4. $\frac{3}{4}$ of 48

$\frac{1}{4}$ of 48 = 48 ÷ 4 = 12

$\frac{3}{4}$ = 12 × 3 = 36

6. 63 ÷ 9 = 70 ÷ 10

63 ÷ 9 = 7 70 ÷ 10 = 7

8. Did cost €40, 25% off

25% = $\frac{25}{100}$ = $\frac{1}{4}$

$\frac{1}{4}$ of €40 = 40 ÷ 4 = €10

€40 - €10 = €30

9. $\frac{2}{3}$ of 27

$\frac{1}{3}$ of 27 = 27 ÷ 3 = 9

$\frac{2}{3}$ = 9 × 2 = 18

10. Descending order (gets smaller)

T U · t h

3 0 ①

0 · 3 ③

3 · 3 ②

0 · 0 3 ④

11. $\frac{9}{12} - \frac{3}{6} = \frac{9}{12} - \frac{6}{12} = \frac{3}{12}$ or $\frac{1}{4}$

$\frac{3}{6} \overset{\times 2}{=} \frac{6}{12}$ ($\times 2$)

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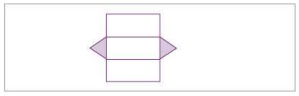

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Common denominator = 12

$\frac{1}{4} \overset{\times 3}{=} \frac{3}{12}$

$\frac{3}{6} \overset{\times 2}{=} \frac{6}{12}$

20. T u · t h

7 · 8

## PROBLEM-SOLVING

### Monday

1. A flight from Dublin to Paris, one way, cost €150. The return flight cost an additional €250. What was the total cost of Dublin → Paris → Dublin for a family of 4?

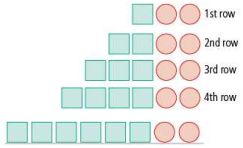
€ 1,600

2. Sam baked 3 cakes with a total of 16 corners. What 2-D shapes could there have been?

teacher check

### Tuesday

1. Draw the 6th row.




2. An Olympic swimmer completed a 5-km morning session in a 50-m pool. How many laps in total?

100

### Wednesday

1. A group of 200 pupils were surveyed. How many preferred spring?

50

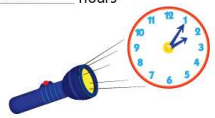
2. How many liked summer and winter?

150

### Thursday

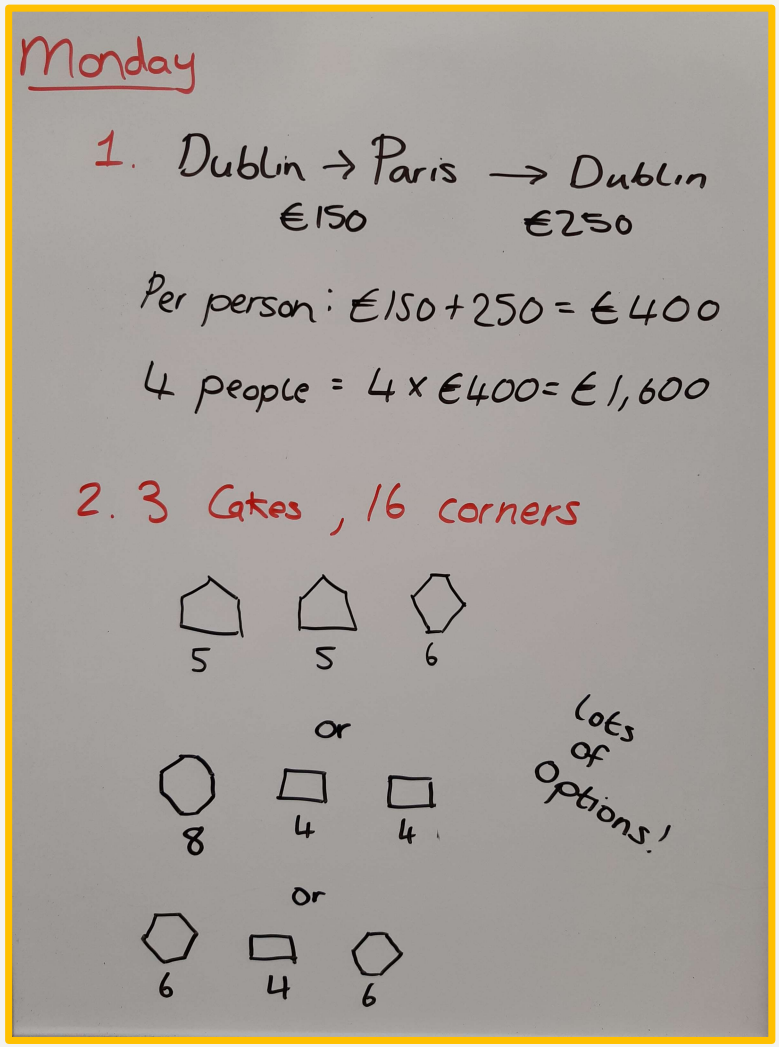
1. Hugo shone his torch in the dark to see what time it was. Write the time in 24-hour format.

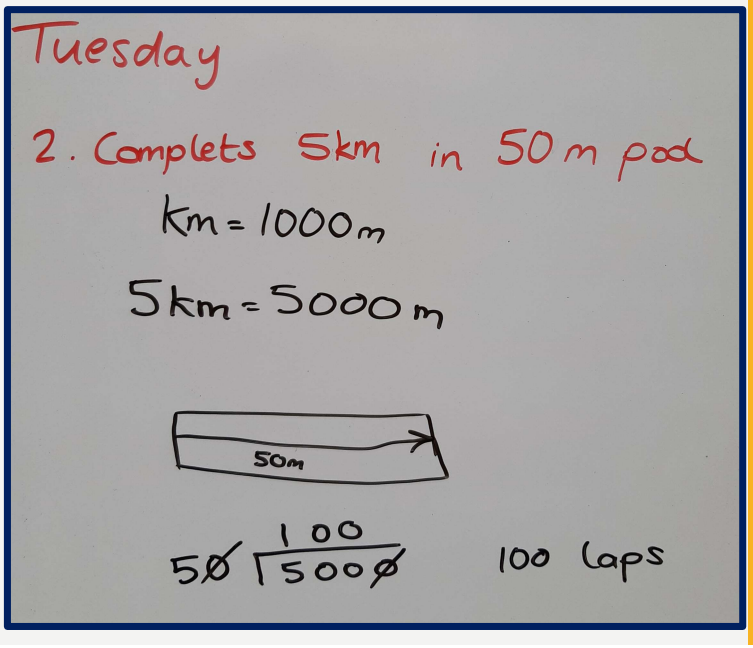
02:05 hours



2. What 4 coins can be used to make €2.90?

€2, 50c, 20c and 20c



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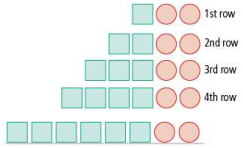


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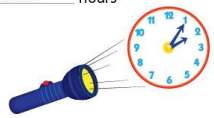

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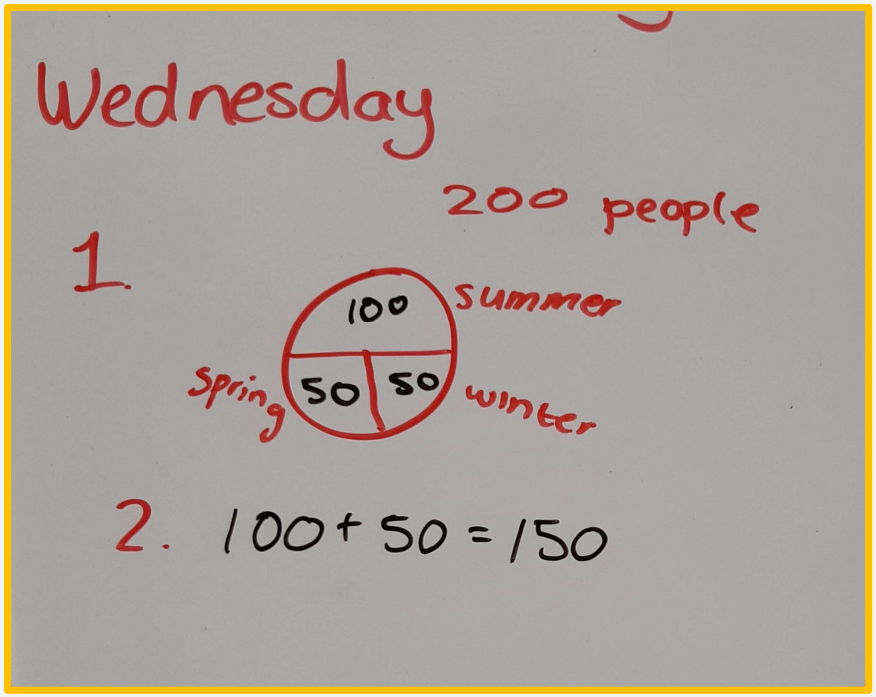

## FRIDAY REVIEW

1. 20% of €60

   = € 12

2. 5th Class has 32 pupils. How many like funny books?

   8

3. 990,000 + 100,000

   = 1,090,000

4. Colour 60%.

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

6. 70 × 90 = 6,300

7. 15,000 – 9,500

   = 5,500

8. $\frac{9}{10} - \frac{1}{5} = \frac{7}{10}$

9. $10\overline{)400}$ = 40

10. Which set has multiples of 4 and 6?

    - ☐ 12, 16, 18
    - ☐ 12, 18, 24
    - ☑ 12, 24, 36
    - ☐ 12, 16, 28

11. The place value of the 3 in 2.3

    = tenths

12. 100 = 50 × 2

13. There are 15 sweets in a packet. There are 5 packets. How many sweets altogether?

    15 x 5

    = 75

14. If you bought 2 l of milk at 90c per 500 ml, how much would it cost?

    € 3.60

15. 3.412 + 2.035 + 1.432

    = 6.879

16. $\frac{63}{100}$ = 63 %

17. Write the numeral one million, one hundred and one.

    1,000,101

18. 5 × 9 × 200 = 9,000

19. Write in ascending order.

    *9 0.09 0.9 0.19*

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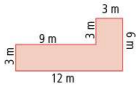
20. 4.25 × 5 = 21.25

21. This is a

    kite.

22. Area = 45 m²

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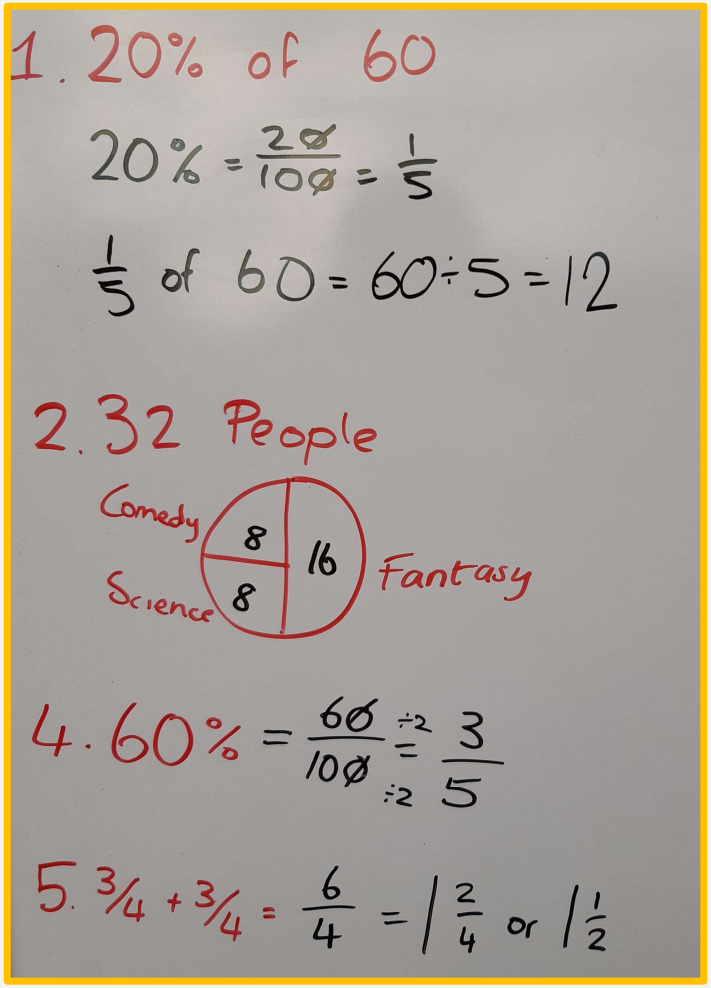
24. Draw a 90° turn clockwise.

25. $\frac{29}{6}$ = (mixed number)

    $4\frac{5}{6}$



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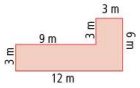


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$\frac{1}{5} \overset{\times 2}{=} \frac{2}{10}$ (×2)

10. Multiples of 4 : 4, 8, 12, 16, 20, 24, 28, 32, 36

Multiples of 6 : 6, 12, 18, 24, 30, 36

Common multiples : 12, 24, 36

14. 500 ml = 90c

2L = 2000 mL

500ml 500ml 500ml 500 ml

90c + 90c + 90c + 90c = 360c

€3.60

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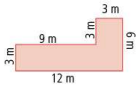


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17. M HTh TTh Th H T U

    1, 0 0 0, 1 0 1

19. Ascending (gets bigger)

| T | U · | t | h | |
|---|---|---|---|---|
| | 9 | | | ④ |
| | 0 · | 0 | 9 | ① |
| | 0 · | 9 | | ③ |
| | 0 · | 1 | 9 | ② |

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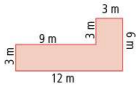


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or

29÷6 = 4r5 = $4\frac{5}{6}$