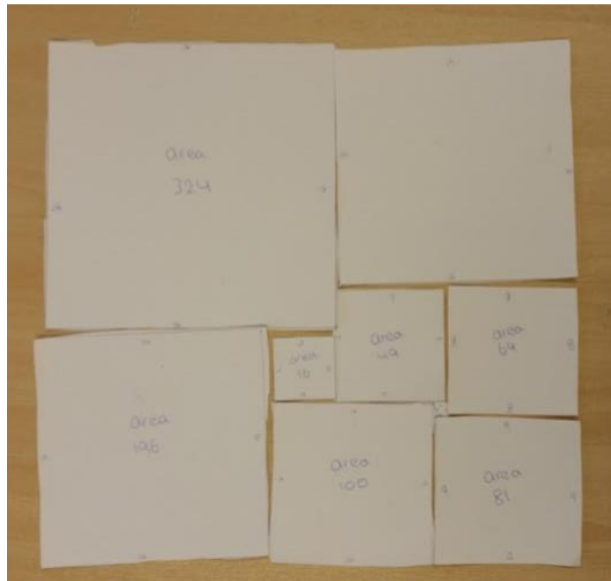
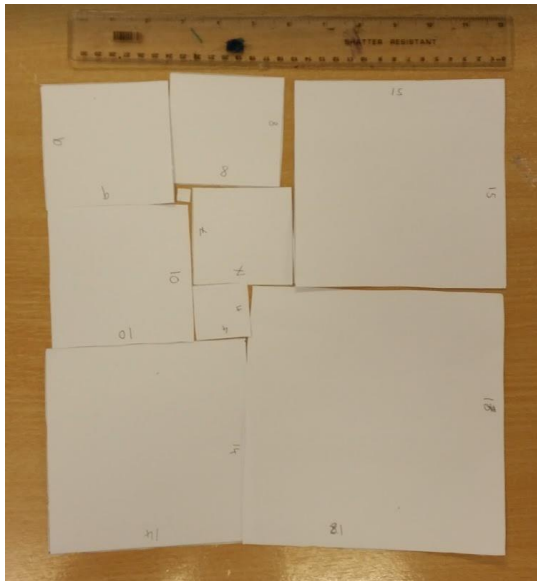


Challenge 1

<p>A.</p> <p>(a) 22cm^2 (b) 26cm^2 (c) 10cm^2 (d) 9cm^2</p> <p>B.</p> <p>(a) $12\frac{1}{2}\text{cm}^2$ (b) 14cm^2 (c) 12cm^2 (d) $9\frac{1}{2}\text{cm}^2$ (e) 10cm^2</p> <hr style="border: 1px solid green;"/> <p>C.</p> <p>Red = _____15_____ square units Blue = _____32_____ square units Green = _____15_____ square units Yellow = _____30_____ square units Orange = _____21_____ square units Purple = _____18_____ square units</p>	<p>Part 2</p> <p>7. $6 \times 4 = 24 \text{ cm}^2$ 8. $8 \times 5 = 40 \text{ cm}^2$ 9. $9 \times 6 = 54 \text{ cm}^2$ 10. $7 \times 6 = 42 \text{ cm}^2$ 11. $8 \times 4 = 32 \text{ cm}^2$ 12. $9 \times 7 = 63 \text{ cm}^2$ 13. $10 \times 9 = 90 \text{ cm}^2$</p>
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Here are two examples of the solution to the bonus challenge:



The dimensions of the rectangle are 32cm x 33cm.

Another solution:

Square	Area
1	$1 \times 1 = 1 \text{ cm}^2$
4	$4 \times 4 = 16 \text{ cm}^2$
7	$7 \times 7 = 49 \text{ cm}^2$
8	$8 \times 8 = 64 \text{ cm}^2$
9	$9 \times 9 = 81 \text{ cm}^2$
10	$10 \times 10 = 100 \text{ cm}^2$
14	$14 \times 14 = 196 \text{ cm}^2$
15	$15 \times 15 = 225 \text{ cm}^2$
18	$18 \times 18 = 324 \text{ cm}^2$

When you add all the areas together you get 1056 cm^2

You can then use your calculator to test which numbers divide evenly into 1056.

$1056 \text{ divided by } 32 = 33.$

NWMM Week 34

MONDAY

- 25% of €100 = € 25
- Write the numeral one million, one hundred and eleven thousand, one hundred and eleven.
1,111,111
- If coffee costs €2.00 per 100 g, how much will 1 kg cost?
€ 20
- $10^2 =$ 100
- $999,993 + 7 =$ 1,000,000
- $1,000,000 + 1,175,000 =$ 2,175,000
- $909,090 - 8 =$ 909,082
- $+12, +6, \underline{0}, -6, \underline{-12}$
- This is a heptagon.
- Sarah has 90 coins and Joshua has 45 coins. How many altogether?
90 + 45 = 135
- 20% of €20 = € 4.00
- €100.00 - €17.50 = € 82.50
- What is the radius of a circle if the diameter is 5 cm?
2.5 cm
- Sum of 1,250 and 650 = 1,900
- $278 + 22 + 38 + 32 =$ 370
- $\frac{2}{3} + \frac{2}{3} + \frac{1}{3} = \frac{5}{3} = \underline{1\frac{2}{3}}$
- This is an octagonal prism.



- The hat was €30, now it costs € 27.



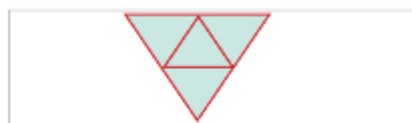
- Circle the symmetrical letter shape.

b N Q r E F

- Double 38. 76

TUESDAY

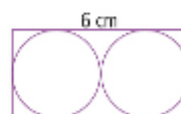
- 25% of €20 = € 5
- $505,050 - 7 =$ 505,043
- How many 50c coins make up €10.00? 20
- $2\frac{1}{3} < 1\frac{1}{3}$ True False
- $999,995 + 8 =$ 1,000,003
- 25, 50, 75, 100
- $10\overline{)350} =$ 35
- Draw a net of a triangular pyramid.



- What are the chances of picking an even number between 1 and 11?
5 out of 11
- $2.022 + 4.513 + 2.453 =$ 8.988
- If cheese costs €1.50 per 100 g, 2 kg will cost
€ 30
- 20% of €40.00 = € 8
- €100.00 - €27.50 = € 72.50
- Draw a 270° turn clockwise.



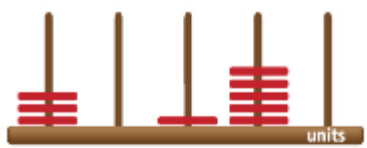
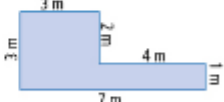



- What is the radius of each circle?
1.5 cm





- Round 2.37 (nearest whole number). 2
- $(24 \div 3) - 2 =$ 6
- $6\overline{)7.206} =$ 1.201
- Halve 98 = 49
- Round 157,034 to the nearest 1,000.
157,000

WEDNESDAY

1. 25% of €80 = € 20
2. $999,997 + 9 =$ 1,000,006
3. Write the numeral one million and ten thousand, nine hundred and nine.
1,010,909
4. $\frac{1}{3} > \frac{1}{4}$ True False
5. $202,025 - 10 =$ 202,015
6. $100,000 + 955,000 =$ 1,055,000
7. $+21, \underline{+14}, +7, 0, \underline{-7}, -14, -21$
8. This shape is a  parallelogram
9. Which temperature is the coldest?
 0 °C 4 °C -2 °C -7 °C 8 °C
10. Side A = 5 cm

11. What is the square's perimeter? 20 cm
12. The value of the abacus is 30,150

13. $17,000 - 8,500 =$ 8,500
14. Louise ran 200 m three times. How far did she run altogether?
200 m \times 3 = 600 m
15. 350, 700, 1,400, 2,800
16. Area = 13 m² 
17. Perimeter = 20 m
18. What is the probability of picking an odd-numbered house in a street with houses numbered from 1 to 37?
19 out of 37
19. The book was €25, now it costs € 20 
20. $\frac{3}{4}$ km = 75 m

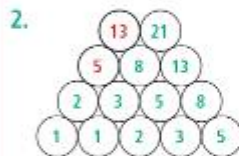
THURSDAY

1. 25% of €60 = € 15
 2. $999,999 + 3 =$ 1,000,002
 3. Area = 32 cm²
Side a = 8 cm 
 4. Write the numeral one million, one hundred and one thousand and five.
1,101,005
 5. $\frac{3}{5} = \frac{12}{20}$
 6. $202,202 - 9 =$ 202,193
 7. How many 50c coins make up €8.00? 16
 8. $6 \times 0 =$ 0
 9. 20% of 80 = 16
 10. Which is the same weight as 2,000 g?
 10% of 2 kg
 50% of 4 kg
 10% of 200 g
 11. The place value of the 3 in 12.032 = hundredths
 12. $+8, +6, \underline{+4}, +2, 0, \underline{0}, -4, \underline{-6}, -8$
 13. $5\frac{1}{4} < \frac{12}{5}$ True False
 14. Simplify $\frac{6}{12}$. $\frac{1}{2}$
 15. $10^2 =$ 100
- The pie chart shows favourite sports of 5th Class pupils.
- 
16. 24 children were surveyed.
How many liked tennis? 6
 17. The least popular sport was cricket
 18. How many children liked rugby? 9
 19. How many more children liked rugby than football?
3
 20. How many more children liked football than cricket?
3

PROBLEM-SOLVING

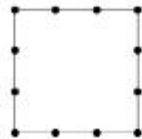
Monday

Complete the patterns.



Tuesday

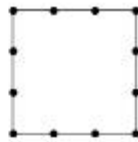
1. Draw a shape to show $\frac{3}{4}$ of this square's perimeter.



teacher check

2. Liam removed 2 parts of the square. What fraction of the perimeter is missing?

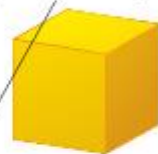
$\frac{1}{2}$ $\frac{2}{4}$ $\frac{2}{12}$ $\frac{10}{12}$



Wednesday

1. A cube has a corner cut away. What 2-D shape is shown?

triangle



2. What 3-D shape is the offcut?

triangular pyramid

Thursday

1. How many dried-out black markers did the boys find?

15

2. Girls find?

11



FRIDAY REVIEW

1. 25% of €40

= € 10

2. $61,044 - 7$

= 61,037

3. 400, 900, 1,400,

1,900, 2,400

4. $\frac{3}{12} + \frac{4}{12} + \frac{5}{12} = \frac{10}{12}$

5. If chocolate costs €1.50 per 100 g, how much will 1 kg cost?

€ 15

6. Circle the symmetrical letter shape.

B G F

7. $5 \overline{)100.5} = 20.1$

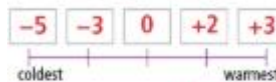
8. $+9$, +6, $+3$, 0 ,

-3, -6 , -9

9. Order the temperatures.

-3°C 0°C $+3^\circ\text{C}$

-5°C $+2^\circ\text{C}$



10. $10 \overline{)450} = 45$

11. $(42 \div 6) - 3 = 4$

12. $20,000 - 8,500$

= 11,500

13. How many 50c coins make up €10.00?

20

14. This is a

hemisphere



15. Which is the same weight as 4,000 g?

10% of 4 kg

50% of 6 kg

100% of 4 kg

16. $9 \times 0 = 0$

17. $2,375,000 + 1,000,000$

= 3,375,000

18. $\frac{1}{5} > \frac{1}{3}$ True False

19. $3\frac{1}{4} > \frac{11}{4}$ True False

20. $3.524 + 1.031 + 4.243$

= 8.798

21. The abacus

= 30,504



22. Stacey ran 800 m four times. How far did she run altogether?

800 m x 4

= 3,200 m

The pie chart shows favourite colours of 5th Class pupils.



23. 36 pupils were surveyed. How many liked blue?

18

24. How many pupils liked red and yellow?

18

25. How many pupils liked yellow?

12

Challenge 2

A

1. The green sea turtle has a **hard shell**.
2. The largest nesting populations can be found in **Costa Rica** and **Australia**.
3. They are called green sea turtles because they have a layer of **green fat** under their skin.
4. Their layer of fat is green because they only eat **seaweed** and other **marine plant life** that grows in the ocean.
5. Their shells often have shades of **dark brown, olive green, black and yellow**.
6. Sea turtles have been known to travel up to **2600 kilometres** between feeding grounds and nesting grounds.
7. Their **strong flippers** make sea turtles good swimmers.
8. Female sea turtles lay their eggs in the spot **where they were born**.
9. It takes the eggs **two months** to hatch.
10. Young sea turtles face threats from **predators such as crabs, wild dogs and birds**.

C

1. Shallow
2. Migrate
3. Populations
4. Predator
5. Hue

D

1. Migrate
2. Shallow
3. Hue
4. Populations
5. Predator

Challenge 5

1. Rosie is ainm don chailín. Or Rosie is ainm di.
2. Is breá léi a bheith ag snámh. Or Is maith le Rosie a bheith ag snámh.
3. Téann sí ag snámh gach maidin Sathairn.
4. Is maith leis a bheith ag snámh Or Is maith le Sam a bheith ag snámh.
5. Bíonn culaith shnámha, caipín snámha, tuáille agus gloiní cosanta ag teastáil ó Rosie nuair a théann sí ag snámh.