Mrs Backhouse and Mrs Ireson's Set 1 Maths

Monday 6th July

Arithmetic

Q1.	13% of 565 =
Q2.	987 x 9 =
Q3.	½ of 12.5 =
Q4.	103.5 x 7 =
Q5.	? = 10 + 8 x 2
Q6.	45 980 + 17.6
Q7.	357 ÷ 7=

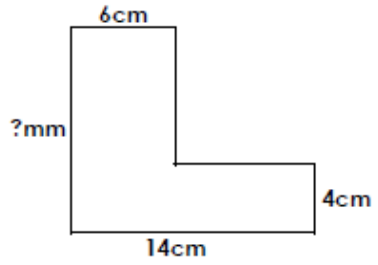
This is the same as ½ of 25

Q8.
½ x 25

Fraction	Decimal
	0.45
	0.98
	0.34
	0.09
	0.03
	0.004
	0.006
	0.309
	0.517

Area https://www.bbc.co.uk/bitesize/topics/zjbg87h/articles/zwqt6fr

5a. The area of this shape is 92cm².
Work out the missing length.



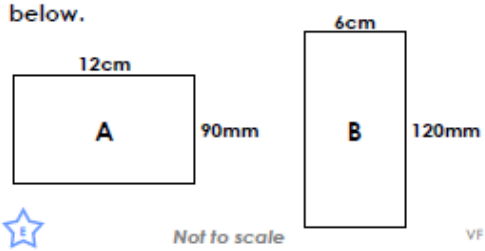
Not to scale

6a. Solve the word problem below.

A garden measures 15ft by 24ft.
What is the area of the garden?

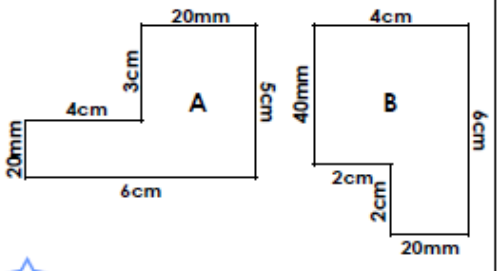
Use the formula $a = w \times l$ to write your answer.

7a. Using the correct formulae, calculate the area and the perimeter of the shapes below.



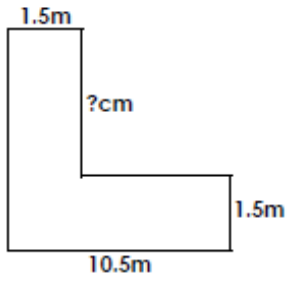
Not to scale

8a. Which shape has an area and a perimeter that equal the same number?



Not to scale

9a. The area of this shape is 21m².
Work out the missing length.



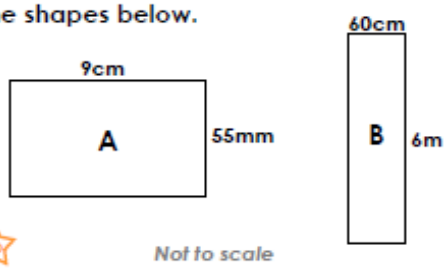
Not to scale

10a. Solve the word problem below.

A garden measures 18m by 350cm. What is the area of the garden?

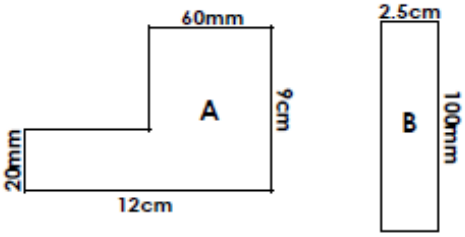
Use the formula $a = w \times l$ to write your answer.

11a. Using the correct formulae, calculate the area and the perimeter of the shapes below.



Not to scale

12a. Which shape has an area and a perimeter that equal the same number?



Not to scale

Tuesday 7th July

Arithmetic

Q1.	16% of 960 =
Q2.	42 x 9 =
Q3.	½ of 10.3 =
Q4.	12.5 x 7 =
Q5.	? = 12 + 3 x 4
Q6.	11 872 + 310
Q7.	360 / 8=

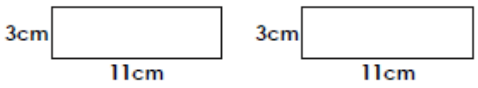
Q8.
¼ x 50

Basic conversions you need to remember:

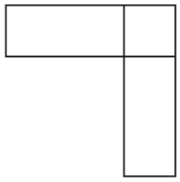
Fraction	Percentage
½	
¼	
1/5	
1/10	
1/8	
¾	
3/8	
1/3	

Area

4a. Freddy draws two equal rectangles.



He puts them together to make a new shape.



Using the correct formulae, find the area and perimeter of the new shape.

Not to scale

5a. A shape has a perimeter of 82cm.

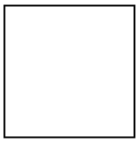
Perimeter = 82cm

What is the largest area the shape could have?

What is the smallest area the shape could have?

Not to scale

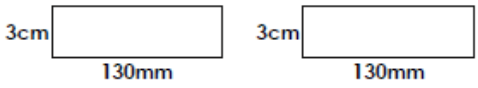
6a. Cally says,



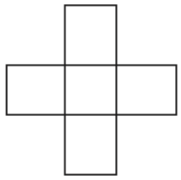
A square can have the same area and perimeter.

Do you agree? Prove it.

7a. Hamza draws two equal rectangles.



He puts them together to make a new shape.



Using the correct formulae, find the area and perimeter of the new shape.

Not to scale

8a. A shape has a perimeter of 80.5cm.

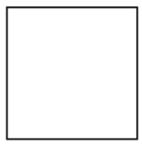
Perimeter = 80.5cm

What is the largest area the shape could have?

What is the smallest area the shape could have?

Not to scale

9a. Suzie says,



If a square has an area that is a decimal, then its perimeter will always be a decimal too.

Do you agree? Prove it.

Wednesday 8th July

Arithmetic

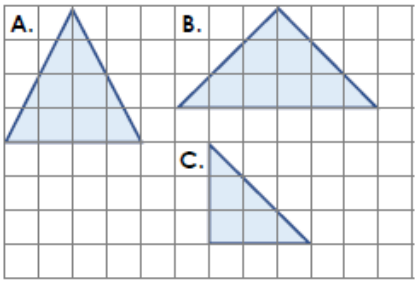
Q1.	10% x 1342 =
Q2.	3456 x 5 =
Q3.	½ of 22.6 =
Q4.	1971.5 x 4 =
Q5.	? = 89 - 4 x 9
Q6.	87 001 + 561.6
Q7.	4909 ÷ 7=

Q8.
¾ x 80

Decimal	Percentage
0.5	
0.1	
0.2	
0.15	
0.75	
0.86	
0.02	
0.09	
0.781	

Finding the area of a triangle by counting squares

4a. Find the area of each triangle by counting the squares, then order them from smallest to largest.

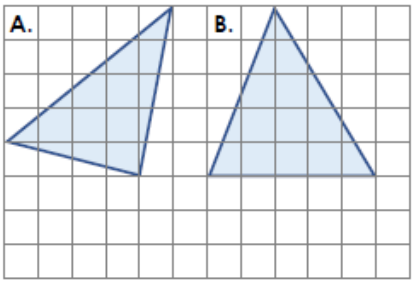


1 square = 1cm²

Not to scale

VF

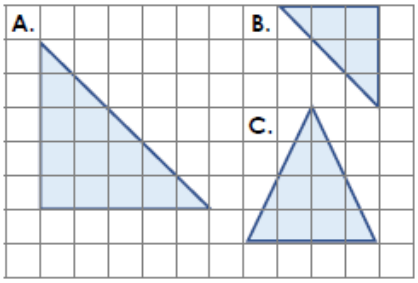
5a. If each square equals 1cm², estimate the area of these triangles by counting squares.



Not to scale

VF

6a. Each square equals 1cm². Match each triangle to its area.

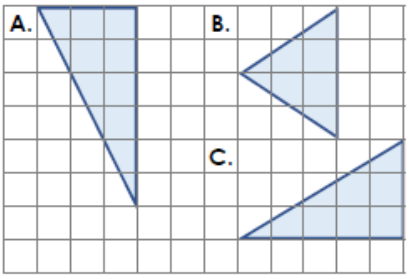


12.5cm² | 8cm² | 4.5cm²

Not to scale

VF

7b. Find the area of each triangle by counting the squares, then order them from largest to smallest.



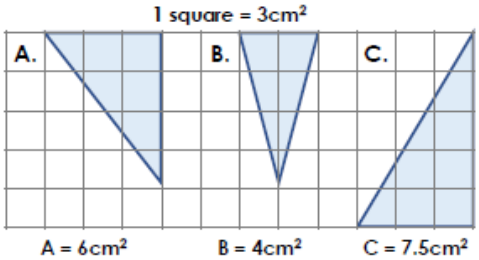
1 square = 3cm²

Not to scale

VF

8a. Ali has estimated the area of these triangles by counting the squares.

1 square = 3cm²



A = 6cm² B = 4cm² C = 7.5cm²

Do you agree with his estimations? Explain why.

Not to scale

R

9a. Bella is drawing a triangle.

She says,

My triangle has an area of 18cm². One of its sides is 12cm long.

Use squared paper to draw triangles with the same properties as Bella's. Imagine each square is worth 2cm².

PS

Thursday 9th July

Arithmetic

Q1.	10% x 1562 =
Q2.	7652 x 5 =
Q3.	½ of 14.8 =
Q4.	876.5 x 4 =
Q5.	? = 27 - 2 x 3
Q6.	67 001 + 231.4
Q7.	1200 ÷ 12=

Q8.
¾ x 144

ARE YOU READY?

Fraction	Decimal	Percentage
14/100		
67/100		
	0.24	
	0.89	
		62%
		13%

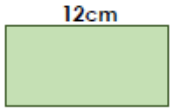
ARE YOU READY?

5/10		
7/10		
	0.8	
	0.4	
		30%
		70%

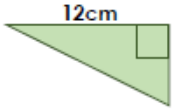
Finding the area of a triangle by using a formula

https://www.bbc.co.uk/bitesize/topics/zjbg87h/articles/zsqxfcw

4a. Use the area of the rectangle to calculate the area of the triangle.



Area = ☐ cm²

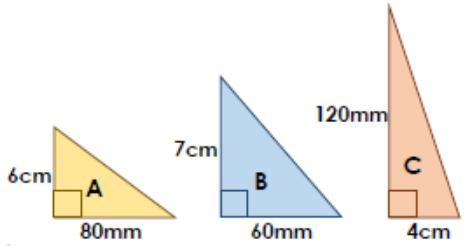


Area = ☐ cm²

not to scale VF

5a. Calculate the areas of the triangles below and circle the triangle that has a different area.

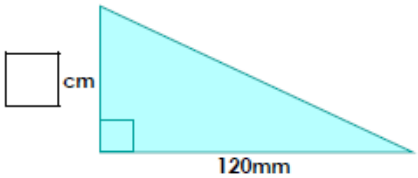
$$\text{area} = \frac{\text{base x height}}{2}$$



not to scale VF

6a. The area of the triangle is 54cm². Using the formula, find the length of the missing side.

$$\text{area} = \frac{\text{base x height}}{2}$$



Write your answer in cm.

not to scale VF

7a. Sadia is thinking of a triangle.

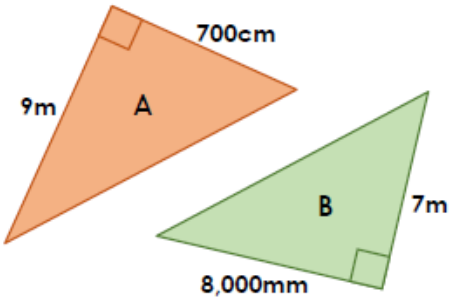
My triangle has an area greater than 0.6m² but less than 6,100cm². Its height is equal to its base.

$$\text{area} = \frac{\text{base x height}}{2}$$

Draw and label Sadia's triangle in cm. Find the area using the formula above.

PS

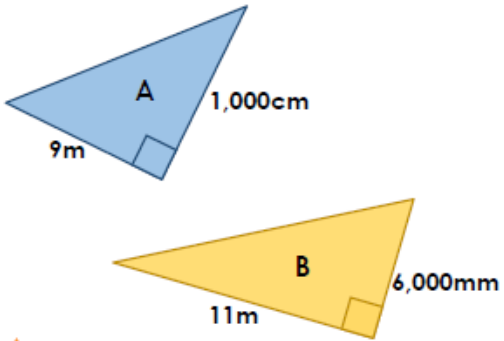
8a. Cory thinks the area of triangle B is larger than the area of triangle A.



Is Cory correct? Use a formula to prove it.

not to scale R

9a. Calculate the difference between the area of these 2 triangles.



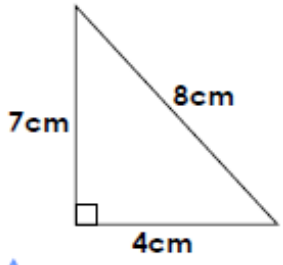
not to scale PS

Friday 10th July

Finding the area of a triangle using a formula

5a. Use the formula: $b \times h \div 2$ to calculate the area for the triangle below.

Circle the correct area.



A. 13cm²

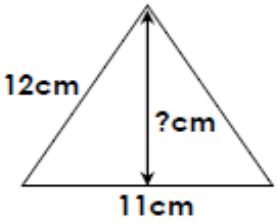
B. 14cm²

C. 15cm²

Not to scale

VF

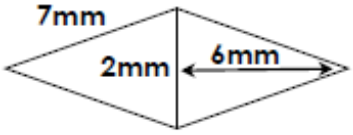
6a. The area of the triangle below is 55cm². What is the missing height?



Not to scale

VF

7a. Calculate the area of the shape. The triangles are identical.

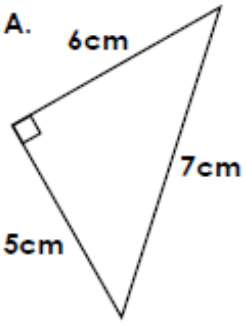


Not to scale

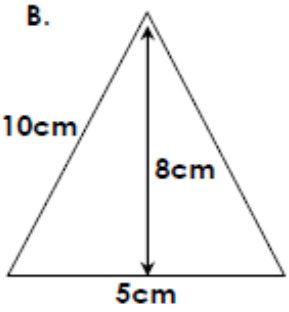
VF

8a. Which triangle has the largest area?

A.



B.

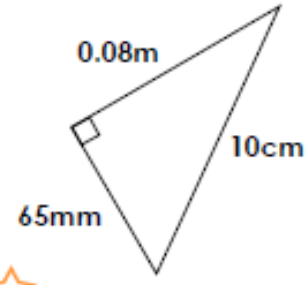


Not to scale

VF

9a. Use the formula: $b \times h \div 2$ to calculate the area for the triangle below.

Circle the correct area.



A. 24.5cm²

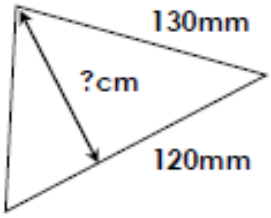
B. 22cm²

C. 26cm²

Not to scale

VF

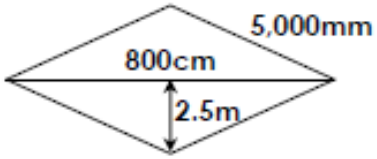
10a. The area of the triangle below is 45cm². What is the missing height?



Not to scale

VF

11a. Calculate the area of the shape in metres. The triangles are identical.

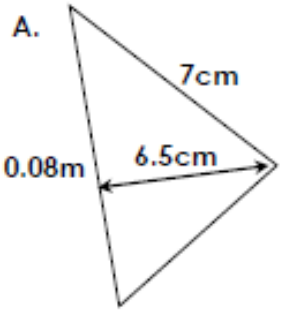


Not to scale

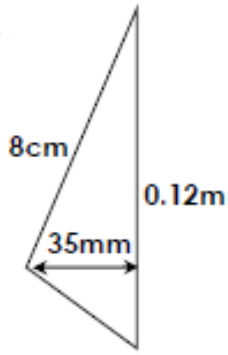
VF

12a. Which triangle has the largest area?

A.



B.



Not to scale

VF

Mr Gibbon's Set 3 Maths and Mr Lond's Set 2 Maths

This week you will be learning about area and perimeter. Remember, perimeter is the distance around the shape, calculated by adding up the length of each side. Area is the amount of space a shape has taken up.

Monday 6th July

Arithmetic

Daily Practice

1) 63,416 + 3,890 =
2) _____ = 16.71 – 9.36
3) 42 x 37 =
4) 7,605 ÷ 5 =
5) _____ = 1.792 x 100

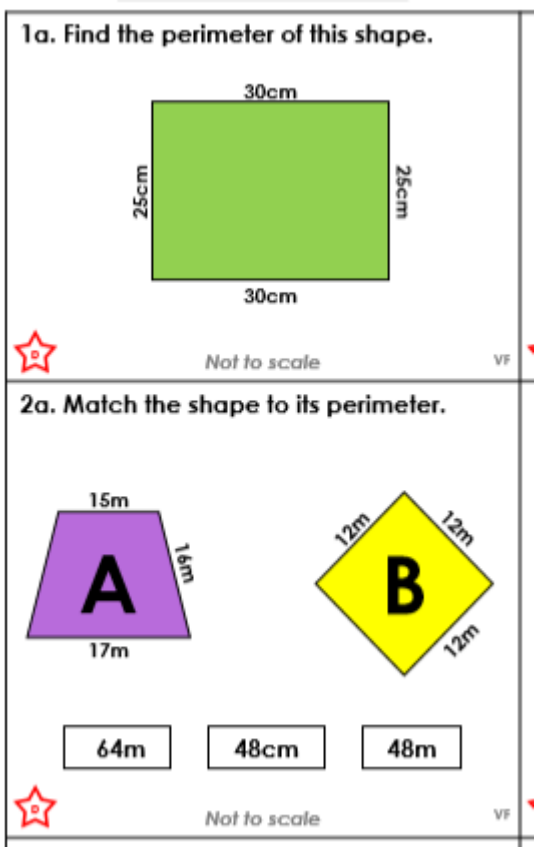
Brain Starter

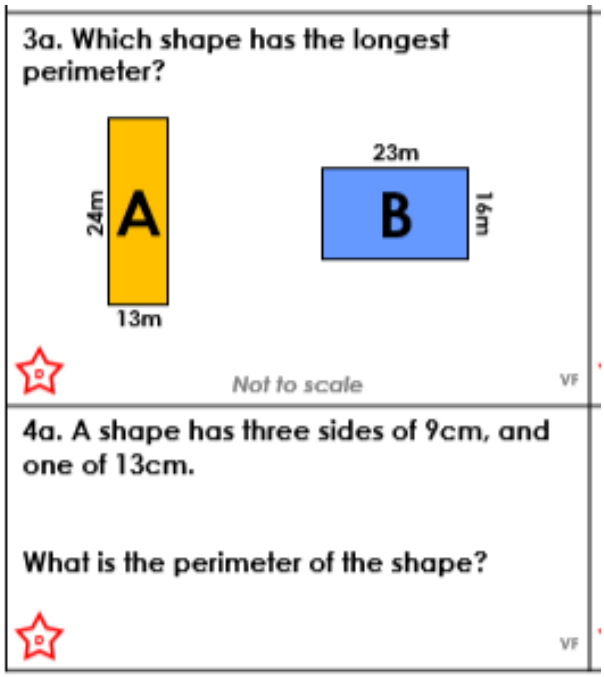
One

46,796 people visited a theme park in one weekend. 23,897 people did not go on a rollercoaster. How many people did?

Main

You'll need to use your knowledge of properties of shapes to work out the missing sides.



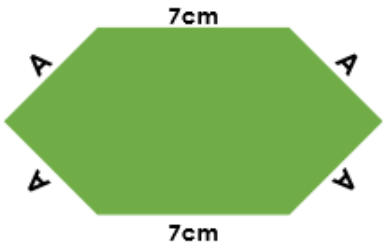


2a. The perimeter of this shape is 18m.

What is the possible length of the side marked A? Prove it.

Not to scale

2b. The perimeter of this shape is 26cm.



What is the possible length of the side marked A? Prove it.

Not to scale

Tuesday 7th July

Arithmetic

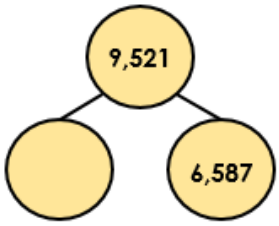
Daily Practice

1) _____ = 56.87 + 3.954
2) 23,269 – 8,964 =
3) 97 x 42 =
4) _____ = 6,306 ÷ 3
5) 35.6 ÷ 100 =

Brain Starter

Three

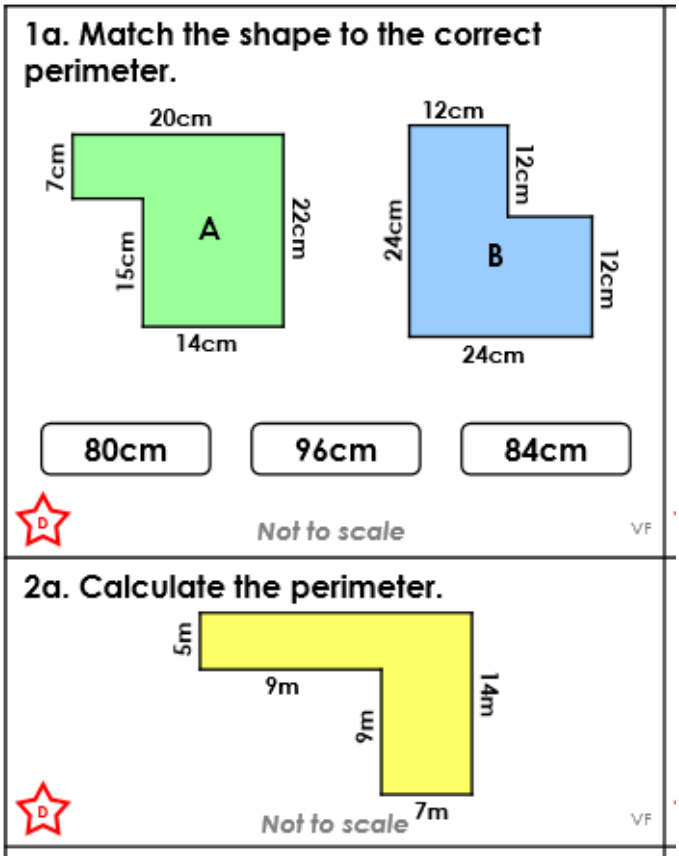
Complete the part-whole model.

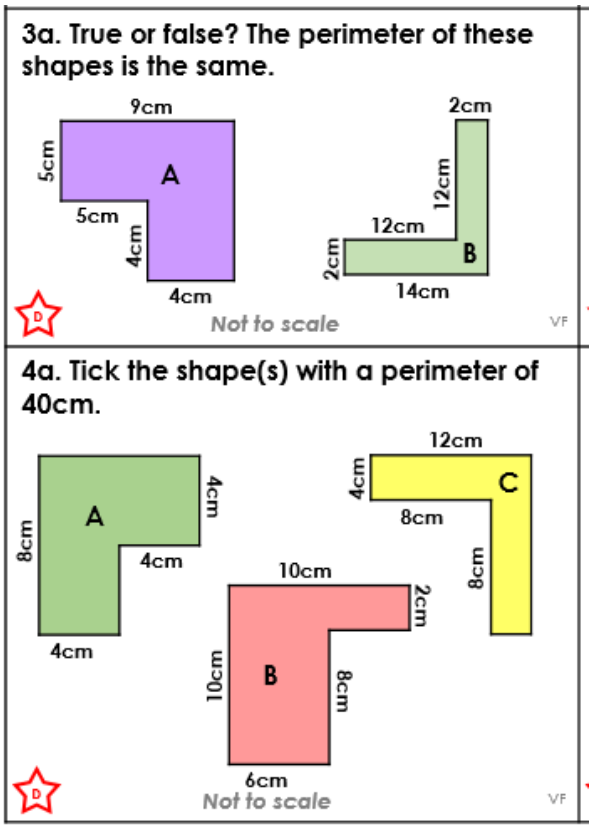


Main

In these questions, there are missing sides. You need to work out what the length the sides are by using the other information you are given. I will explain using number 2, but you will need to do it independently on question 3 and 4.

The top side on number 2 is 16m. I know this because at the bottom there is a 7m horizontal line and to the left there is a 9m horizontal line, this means that the total horizontal line at the top will be 9m+7m long (16m).





Wednesday 8th July

Arithmetic

Brain Starter

Daily Practice

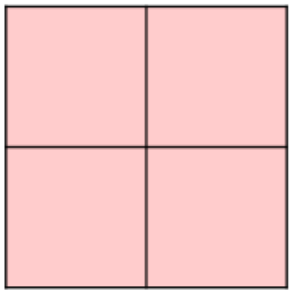
1) 3,278 + 12,976 =
2) 2.17 – 1.75 =
3) _____ = 52 x 41
4) 3,805 ÷ 4 =
5) _____ = 1000 x 0.012

One

2,738 children were in a high school at the end of the year. 678 pupils left and 459 pupils started. How many pupils were in school?

Main

1a. This shape has been made using identical squares. One square has a perimeter of 12cm. What is the perimeter of the whole shape?



Not to scale

2a. Mr Barnes needs to increase the size of his allotment. Currently the allotment is square shaped and has a perimeter of 12m. It needs to be turned into a rectangle with a perimeter of 20m.

What could the dimensions of his new allotment be?

3a. Cherry is working out the perimeter of this shape.

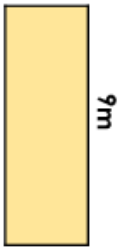
The perimeter is 40m.

Is Cherry right? Explain your answer.

Not to scale

3b. Oliver is working out the perimeter of this shape.

The perimeter is 26m.



Is Oliver right? Explain your answer.

Not to scale

Thursday 9th July

Arithmetic

Brain Starter

Daily Practice

1) 367.71 + 43.856 =
2) _____ = 16,082 – 941
3) 703 x 62 =
4) 5,814 ÷ 7 =
5) _____ = 8.67 ÷ 100

Four

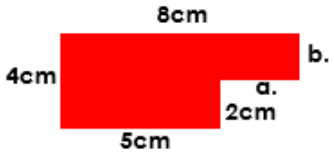
Complete the number sentence.

25,619 - _____ = 15,362

Main

To find the missing lengths in 1a and 1b you need to use the length of the other sides like you did yesterday. If you need extra support on these questions then try watching this video:
https://www.youtube.com/watch?v=0e_mBfCCB5U
At any point if you are struggling, send me a message on Frog.

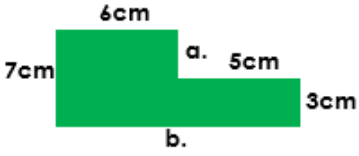
1a. Complete the table to show the missing lengths.



a.	
b.	

not to scale

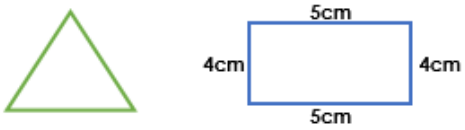
1b. Complete the table to show the missing lengths.



a.	
b.	

not to scale

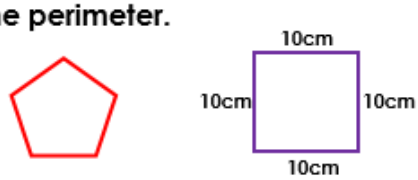
3a. The triangle and the rectangle have the same perimeter.



What is the length of each side of the triangle?

not to scale

3b. The pentagon and the square have the same perimeter.



What is the length of each side of the pentagon?

not to scale

Friday 10th July

Arithmetic

Daily Practice

1) 197.81 + 83.12 =
2) _____ = 40,190 – 1,341
3) 813 x 12 =
4) 6,812 ÷ 2 =
5) _____ = 1.67 x 100

Brain Starter

Three

340,577 people live in Iceland and 56,673 people who live in Greenland. How many more people live in Iceland than Greenland?

Today's maths work is all about improving your times tables.

1) Complete the 10 Garage games I have set for you on Times Table Rockstars
2) Complete the 10 Studio games I have set for you on Times Table Rockstars
3) Learn the times table you struggle on the most.
4) Play times tables games like we do in class with someone in your house.