

Maths Challenges for Year 5.

This is your last week of maths learning before the holidays. Well done to everyone who has had a go at the activities each week. Have some fun with these last few challenges:

1.

Amir is dividing a 2-digit number by 3.

His answer is a whole number.

$$\boxed{2} \boxed{} \div \boxed{3}$$

What could the missing digit be?

2.

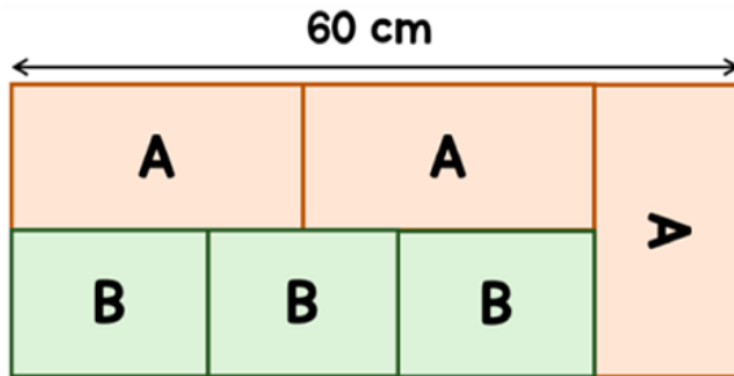
Lewis makes a repeating pattern with some shapes.



Lewis repeats the pattern.

What is the shape in the **50th** position?

3.



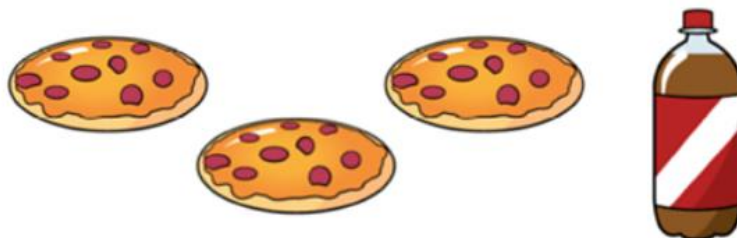
The length of A is double the width of A.

Find the area of one of the rectangles labelled B.

4.

Challenge 6

Mina buys 3 pizzas and a bottle of cola.



A pizza costs £3.20 more than a bottle of cola.

The total cost of the items is £19.40

How much does a pizza cost?

5. Are these statements **Always, Sometimes or Never** true?

<p>Always, Sometimes, Never?</p> <p>Square numbers are even.</p>	<p>Always, Sometimes, Never?</p> <p>Odd x Odd = even.</p>
<p>Always, Sometimes, Never?</p> <p>Division always makes a number smaller.</p>	<p>Always, Sometimes, Never?</p> <p>The difference between a 2-digit number and its reverse is a multiple of 9.</p>

6.

Presents

Gurmit paid £21 for five presents.



For A and B he paid a total of £6.
For B and C he paid a total of £10.
For C and D he paid a total of £7.
For D and E he paid a total of £9.

How much did Gurmit pay for each present?

Answers:

Challenge 1: 1, 4 or 7

Challenge 2: Yellow circle

Challenge 3: 192 cm²

Challenge 4: £5.65

Always, Sometimes, Never: your answers will need to have examples to prove whatever you decide is correct.

Presents: Gurmit paid £2, £4, £6, £1 and £8 for the five presents.