

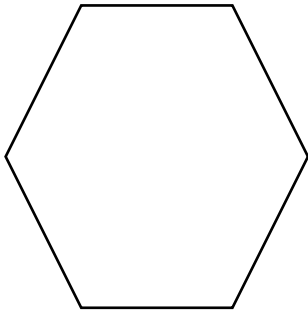
Year 5

Week 5

Lesson 1 – measuring perimeter

Challenge 1 Part 1

Here is a regular hexagon.

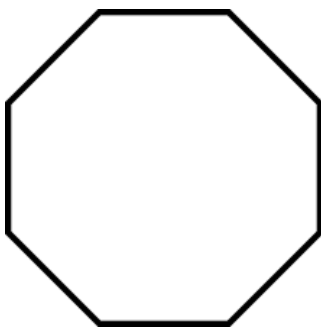


For each of the lengths of sides below, what would the perimeter be?

- a) Side = 4cm
- b) Side = 6cm
- c) Side = 7cm

Challenge 1 part 2

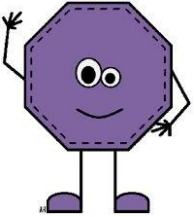
Here is a regular octagon.



For each of the lengths of sides below, what would the perimeter be?

- a) Side = 8cm
- b) Side = 9cm
- c) Side = 12cm

Challenge 2



Olly Octagon has one side that is **15cm**.

Olly says that the perimeter of his octagon face is **135cm**.

Has Olly worked out the perimeter of his octagon face correctly?

Prove and explain your thinking.

Challenge 3

For each of the shapes below, you have been given the **perimeter**. Calculate the size of **one side**. Show all of your workings out in your books – I want to see how you got the answer.

- A regular **nonagon** has a perimeter of **117cm**. What is the size of one side?
- A regular **septagon** has a perimeter of **126cm**. What is the size of one side?
- A regular **decagon** has a perimeter of **140cm**. What is the size of one side?
- A regular **octagon** has a perimeter of **152cm**. What is the size of one side?