

1<sup>st</sup> May 2020

## Part 3

# **WALT Use Scale Factors**

***Follow this presentation and make notes and answer the questions as you go.***

### Problem Solving 1

**This shape has been enlarged by a scale factor of 3. Find the perimeter of the original shape.**



**6.6cm**

**7.2cm**

*Not to scale*

### Problem Solving 1

This shape has been enlarged by a scale factor of 3. Find the perimeter of the original shape.



6.6cm

7.2cm

9.2cm

*Not to scale*

## Reasoning 1

Caitlin says,



If I increase the shape by a scale factor of 2.5, the new perimeter will be 56cm.

6.4cm



4.8cm

Is she correct?

*Not to scale*



## Reasoning 1

Caitlin says,



If I increase the shape by a scale factor of 2.5, the new perimeter will be 56cm.

6.4cm



4.8cm

Is she correct?

Yes because...

*Not to scale*

## Reasoning 1

Caitlin says,



If I increase the shape by a scale factor of 2.5, the new perimeter will be 56cm.

6.4cm



4.8cm

Is she correct?

**Yes because the perimeter of the original shape is 22.4cm.**

$$22.4 \times 2.5 = 56$$

*Not to scale*

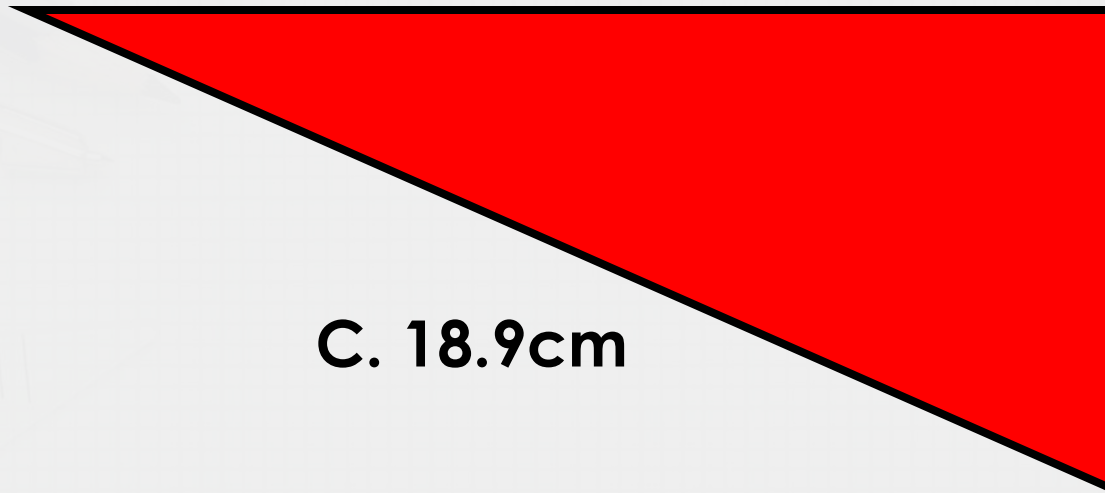
## Problem Solving 2

This triangle was enlarged by a scale factor of three.

A. 15.3cm

B. 7.2cm

C. 18.9cm



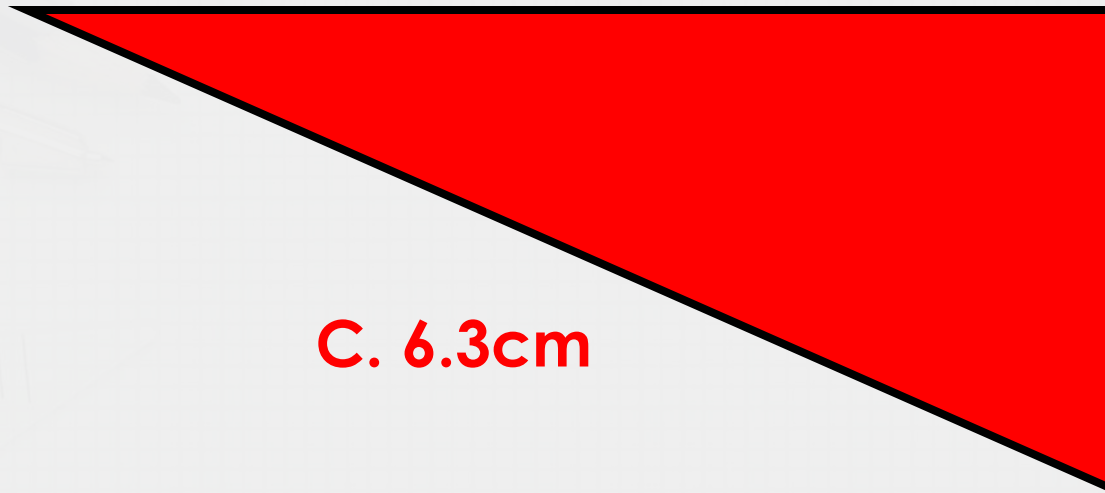
What were the measurements of the original triangle?

*Not to scale*

## Problem Solving 2

This triangle was enlarged by a scale factor of three.

**A. 5.1cm**



**B. 2.4cm**

**C. 6.3cm**

What were the measurements of the original triangle?

*Not to scale*



# Well done! It's over to you now.

Go to Part 4 and choose your Star Challenge! Normal rules apply: page 1 will give you an easier challenge, page 2 will be about the same as what we've just practised and page 3 will be more of a stretch.

You only need to do the first three questions on your chosen Star Challenge – the ones on the left-hand side. If you want extra practice, you can then do the three questions on the right hand side of your chosen challenge page. When you finish, don't forget to mark your answers before sharing, so I can see where you need help.