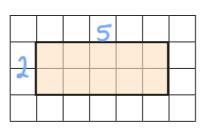
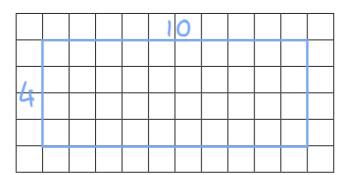
## Using scale factors



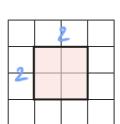
a) Here is a rectangle.



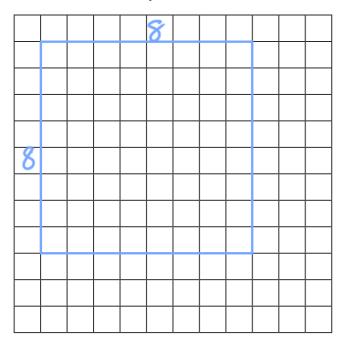
Draw another rectangle where each side is twice as big.



b) Here is a square.



Draw another square where each side is 4 times as big.

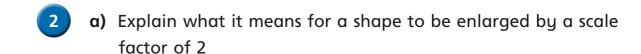






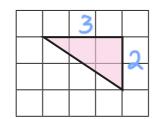


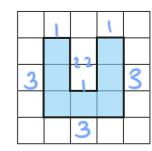


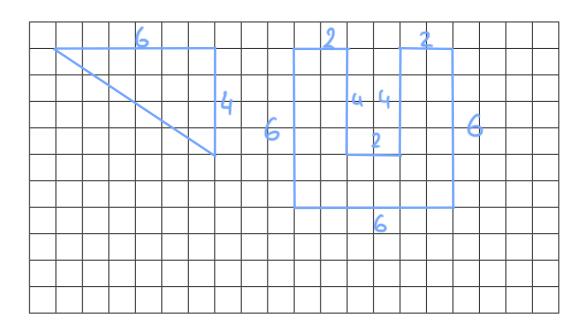


AU of the side lengths are multiplied by 2

**b)** Enlarge the shapes by a scale factor of 2









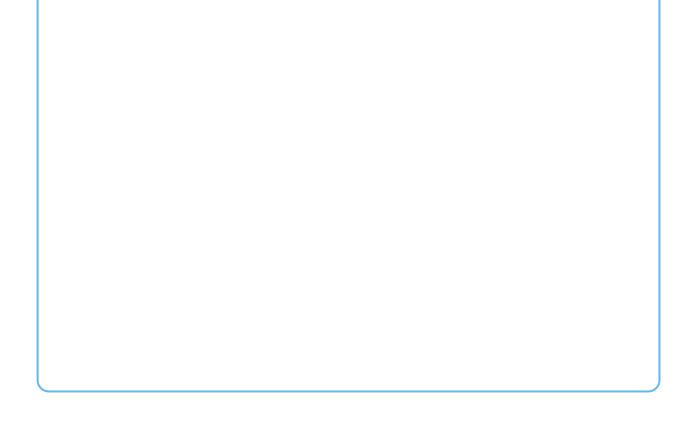
A shape in which each side has tripled in size has been enlarged by a scale factor of



4 Here is a rectangle.

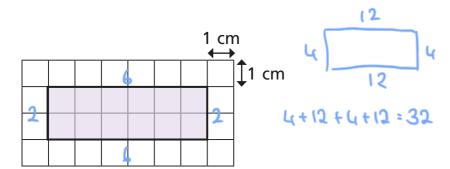


- a) Measure the side lengths of the rectangle and label them on the diagram.
- **b)** Enlarge the rectangle by a scale factor of 3 and label the side lengths.



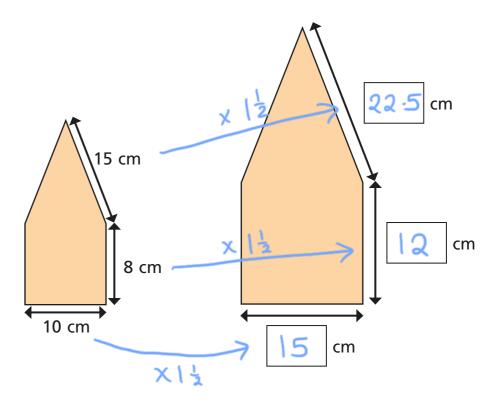
The sides of the rectangle are increased by a scale factor of 2

What is the perimeter of the new shape?



32 cm

The shape has been enlarged by a scale factor of  $1\frac{1}{2}$ Fill in the dimensions of the new shape.



7 Triangle A has been enlarged by a scale factor of 5 to make triangle B.

Find the perimeter of each triangle.

