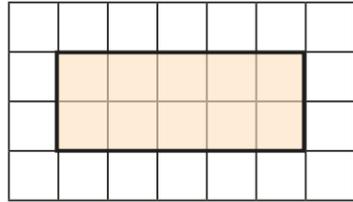
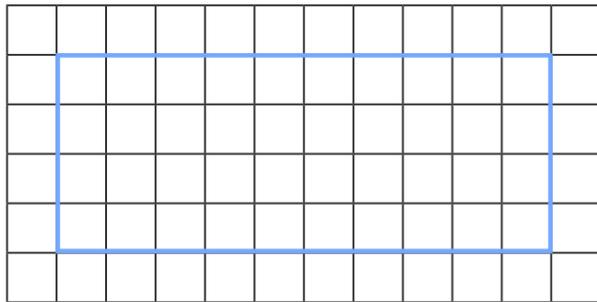


Using scale factors

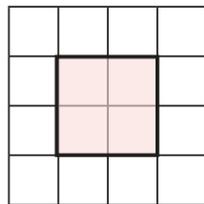
1 a) Here is a rectangle.



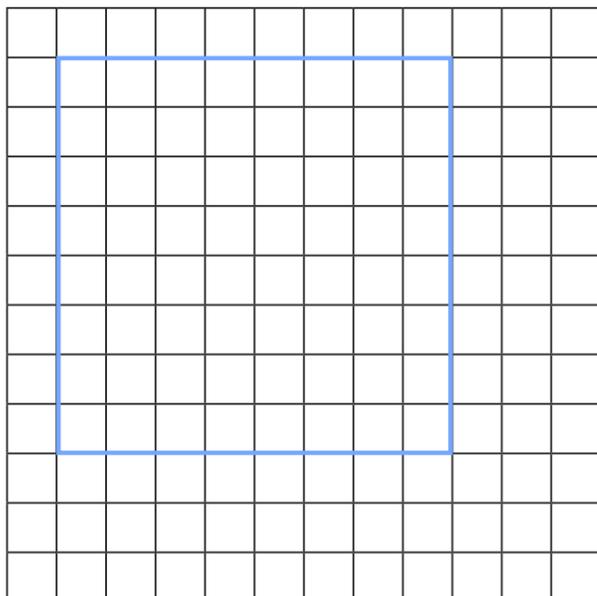
Draw another rectangle where each side is twice as big.



b) Here is a square.



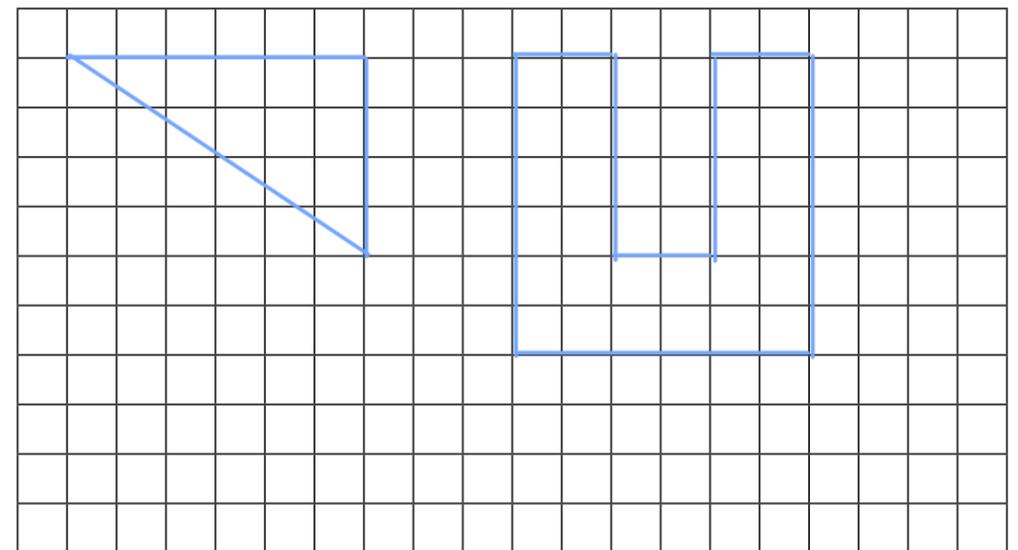
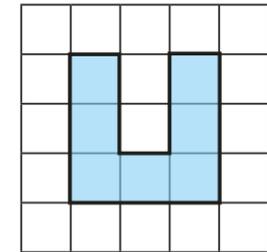
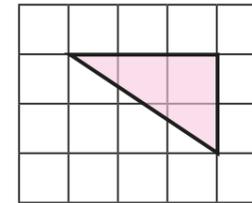
Draw another square where each side is 4 times as big.



2 a) Explain what it means for a shape to be enlarged by a scale factor of 2

All of the side lengths are twice as big.

b) Enlarge the shapes by a scale factor of 2



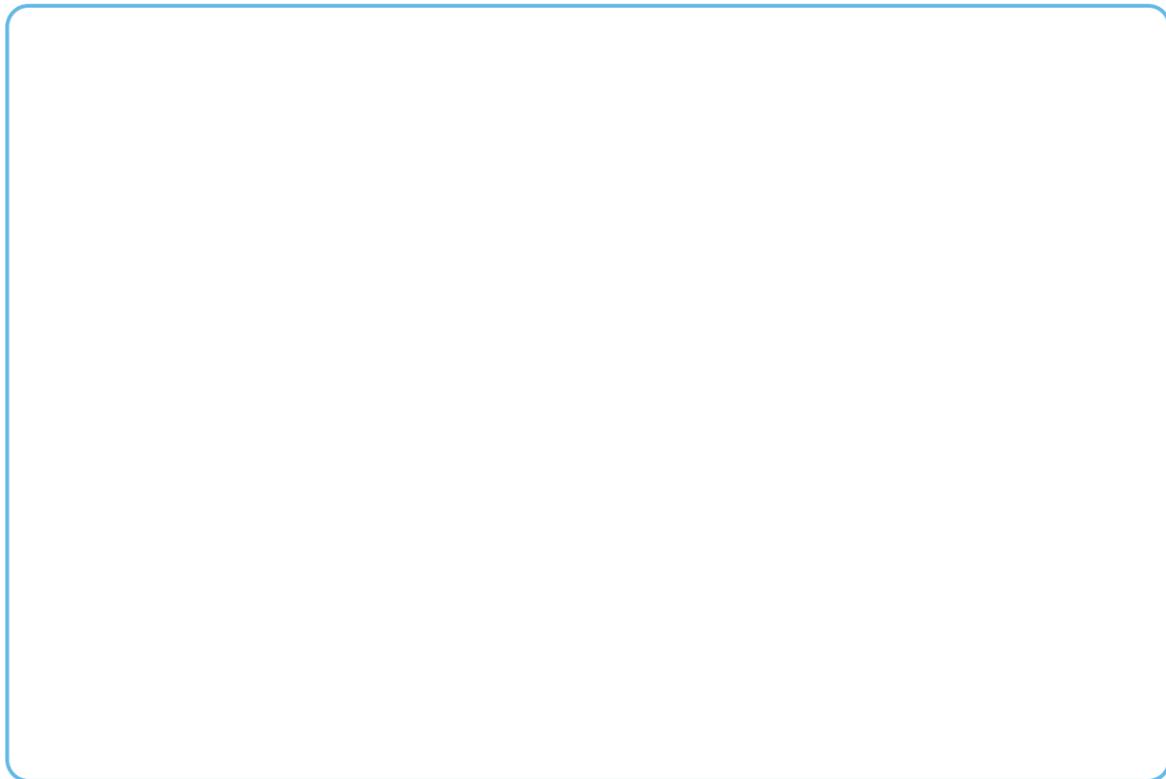
3 Complete the sentence.

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

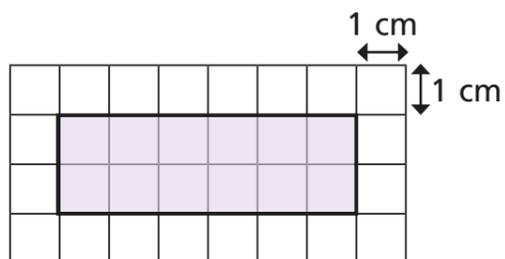
4 Here is a rectangle.



- 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.

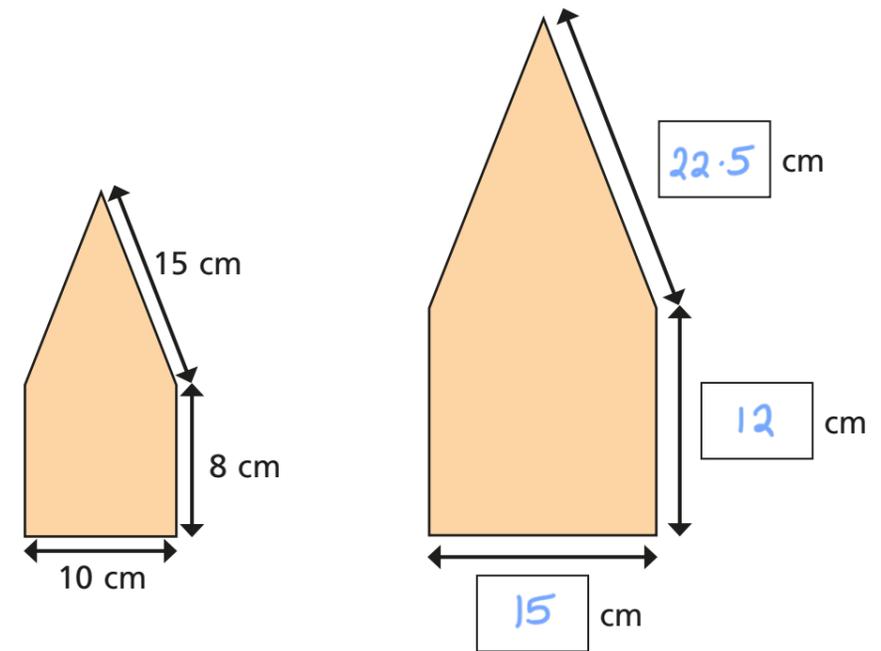


5 The sides of the rectangle are increased by a scale factor of 2
What is the perimeter of the new shape?

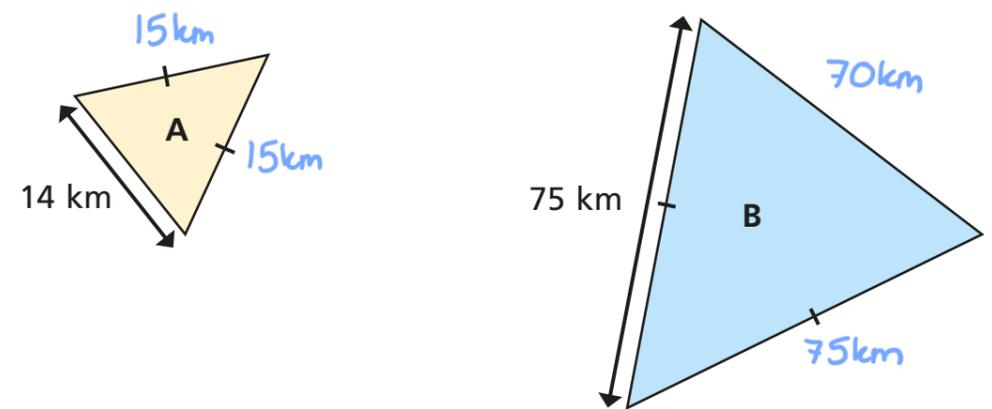


32 cm

6 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.



perimeter of A = 44 km perimeter of B = 220 km

