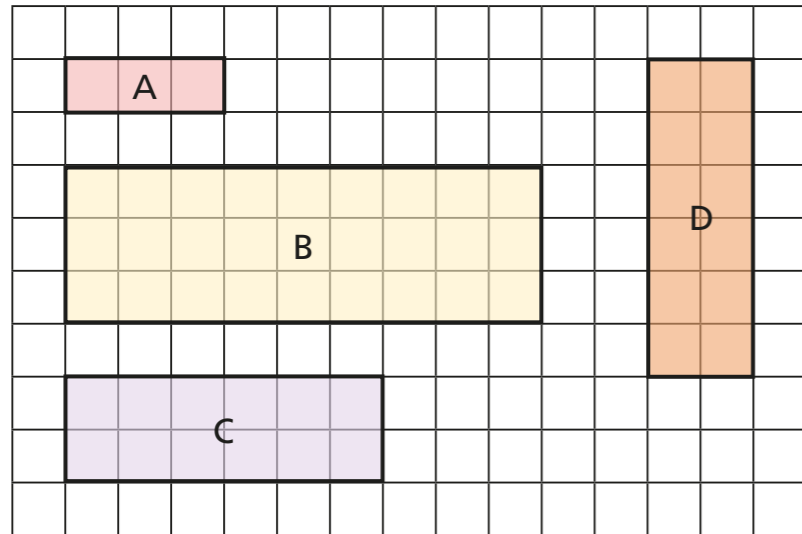


Calculating scale factors

1 Complete the sentences.

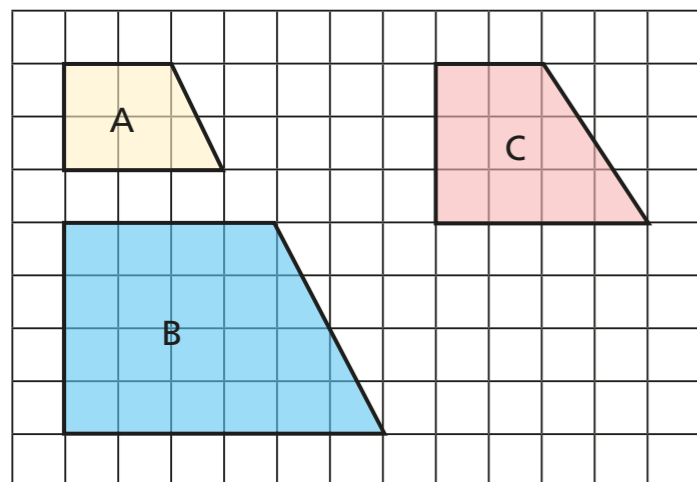


Shape B is an enlargement, by a scale factor of , of shape A.

Shape C is an enlargement, by a scale factor of , of shape A.

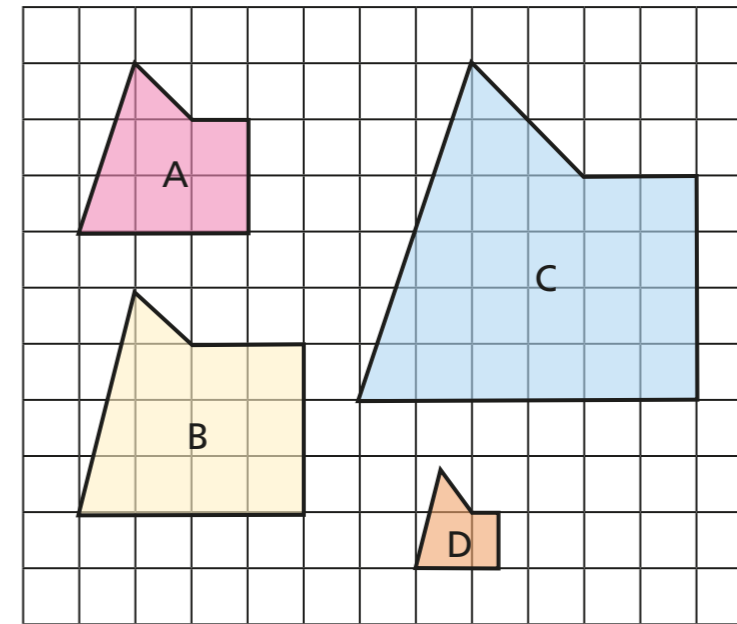
Shape D is an enlargement, by a scale factor of , of shape A.

2 Shape B is an enlargement of shape A. Shape C is not an enlargement of shape A.



Talk to a partner about why this is the case.

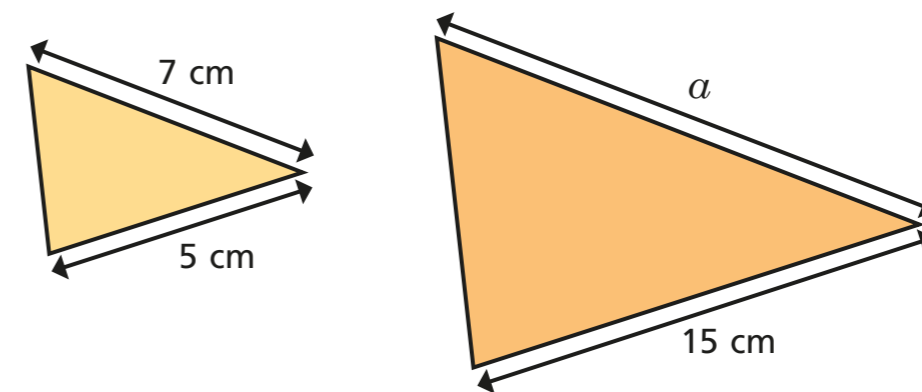
3 Tick all the shapes that are an enlargement of shape A.



How do you know which shapes are enlargements?

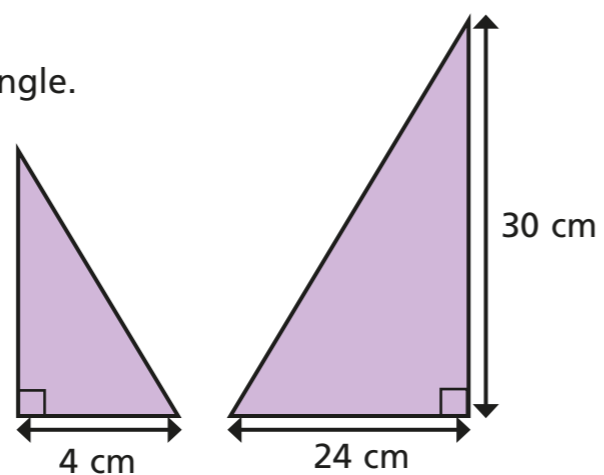
4 The two triangles are similar.

Find the length of a .



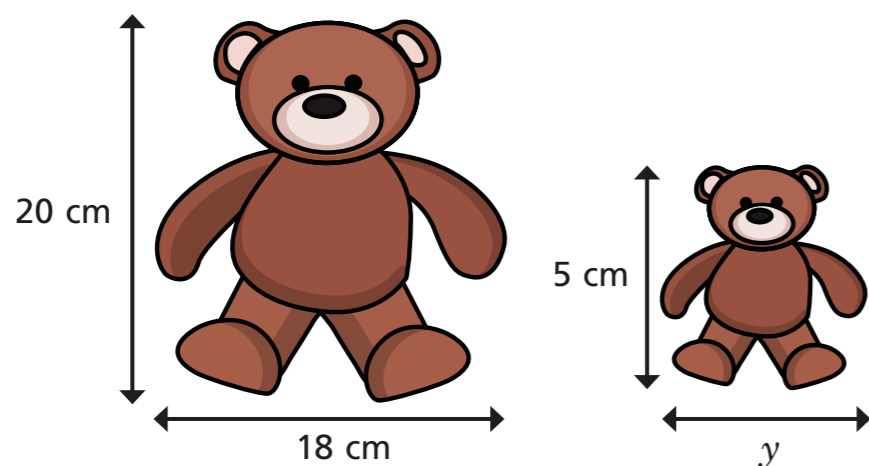
$a =$ cm

- 5 The two triangles are similar.
Find the area of the smaller triangle.



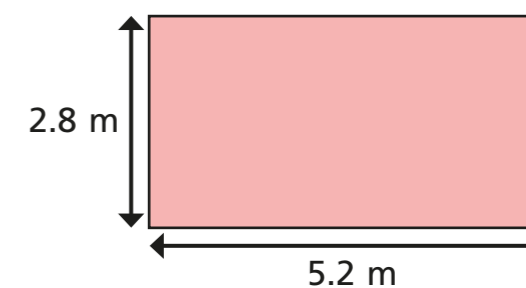
area = cm²

- 6 These two children's toys are similar.
Find the length marked y .



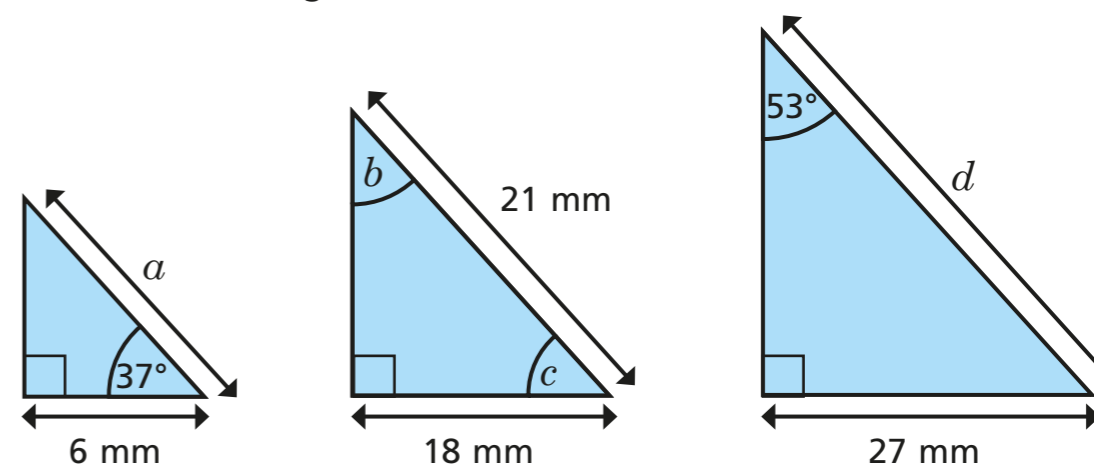
$y =$ cm

- 7 The rectangle is enlarged by a scale factor.
The perimeter of the enlarged rectangle is 64 m.
What is the scale factor of enlargement?



scale factor =

- 8 The diagram shows three similar triangles.
Calculate the missing values.



$a =$ $b =$ $c =$ $d =$