Complete the sentences.


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

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

Shape $D$ is an enlargement, by a scale factor of $\square$ 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 $\alpha$.



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


## (



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


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 $=$ $\square$

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


6 mm


18 mm


27 mm
$a=$ $\square$ $b=$ $\square$
$\square$
$\square$

