

Recognise enlargement and similarity



1 a) Here is a logo.

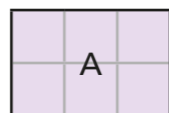


i) Tick the image that is not similar to the logo.

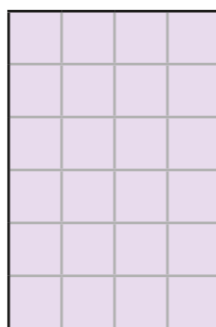
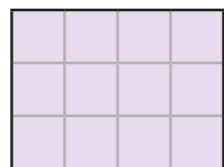
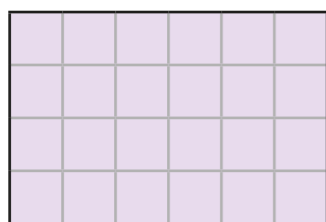


ii) Explain your reasoning.

b) Here is rectangle A.

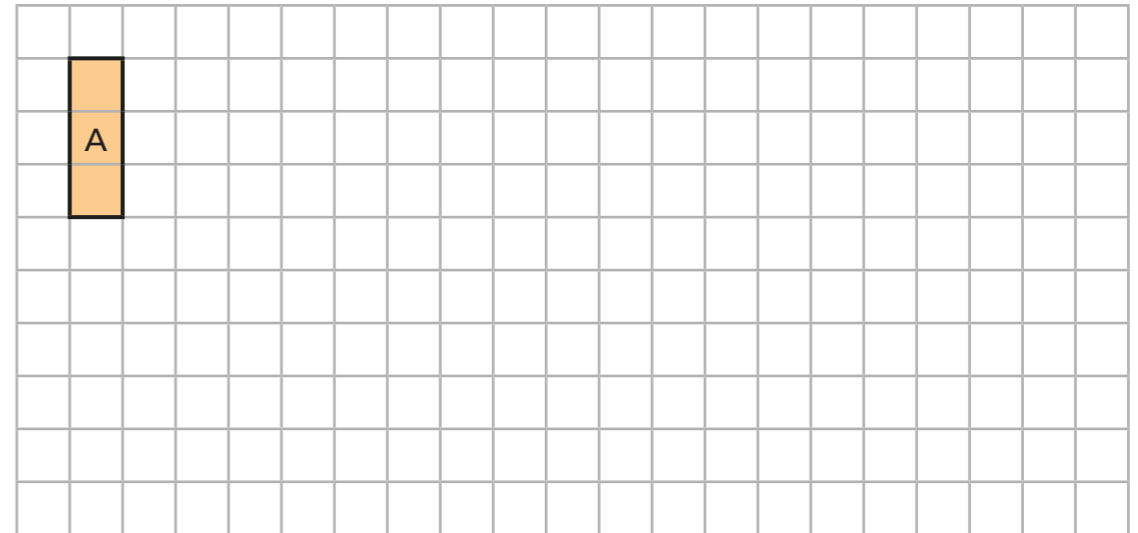


i) Tick the rectangle that is not similar to rectangle A.

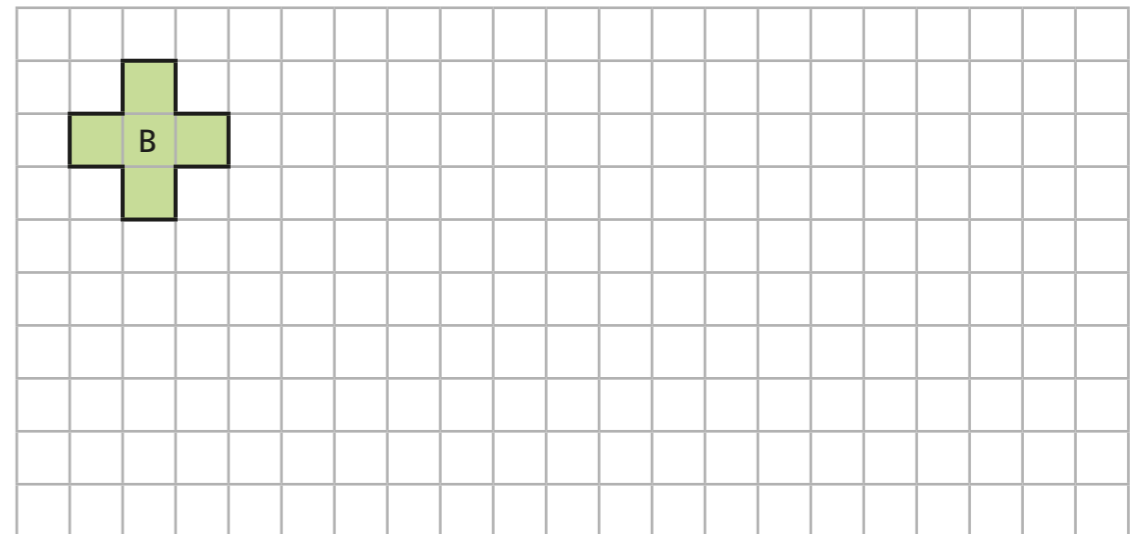


ii) Explain your reasoning.

2 a) Draw two rectangles that are similar to shape A.



b) Draw two dodecagons that are similar to shape B.



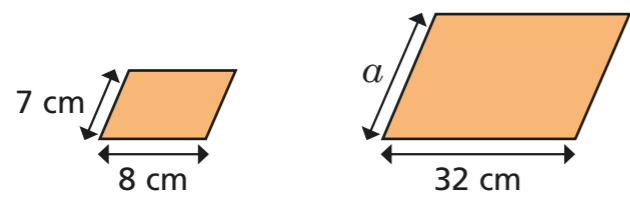
3 Rectangle R has a length of 4 cm and a width of 3 cm.

a) Write the lengths and widths of four rectangles that are similar to rectangle R.

b) What is the ratio of the length to the width of each rectangle?

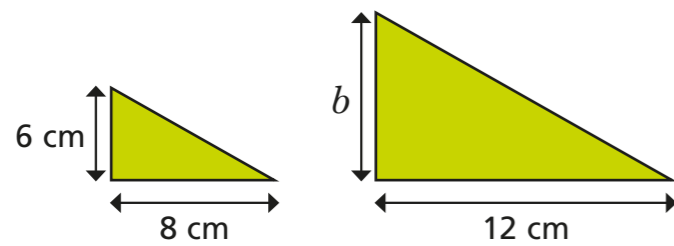
4 Work out the missing lengths in these pairs of similar shapes.

a)



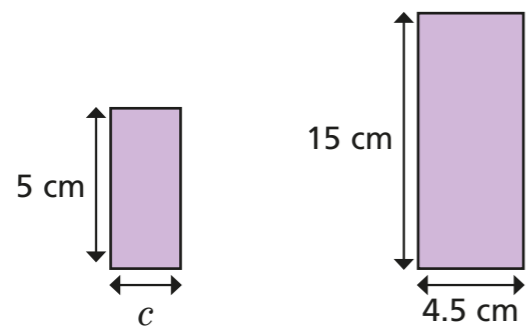
$a =$

b)



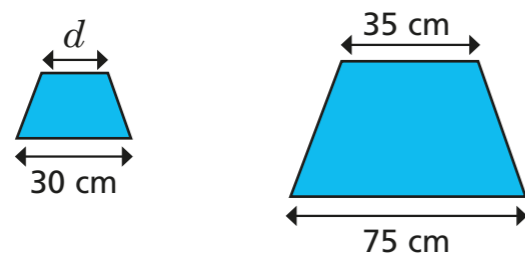
$b =$

c)



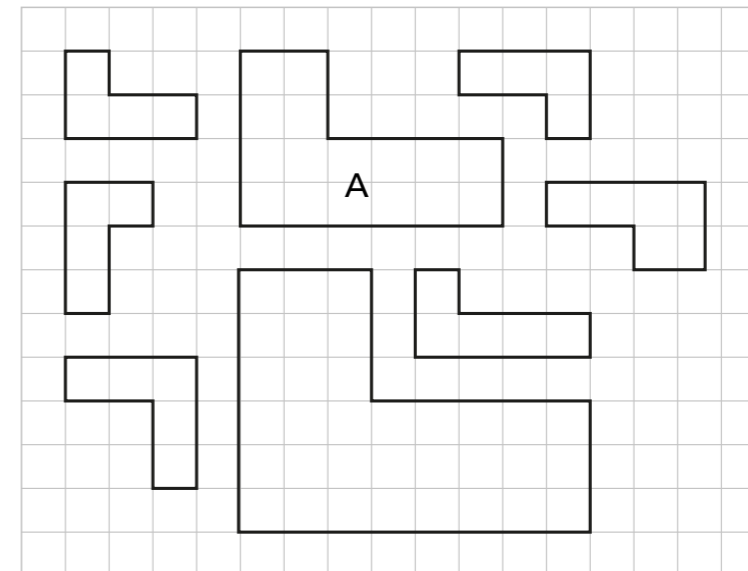
$c =$

d)



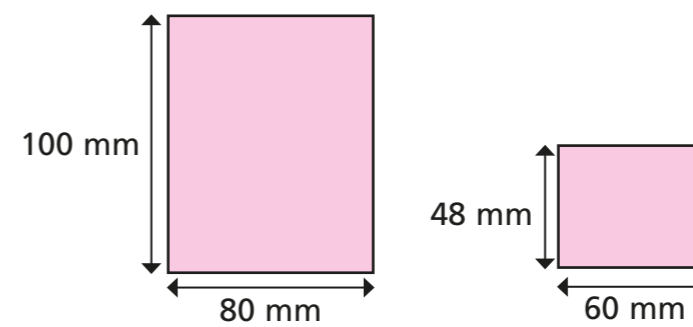
$d =$

5 Tick the shapes that are similar to shape A.



How did you decide which shapes to tick?

6 Dora is checking to see if the two shapes are similar. Here are her workings.



base ratio = 80 : 60
 = 4 : 3
 height ratio = 100 : 48
 = 25 : 12
 The ratios are not the same, so the shapes aren't similar.

Explain why Dora is wrong.
