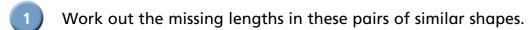
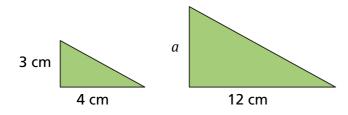
## White Rose Maths

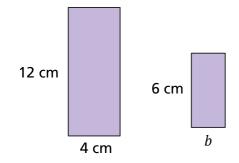
## Explore relationships between similar shapes



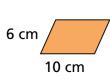
a)

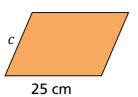


b)



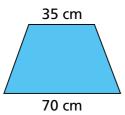
c)



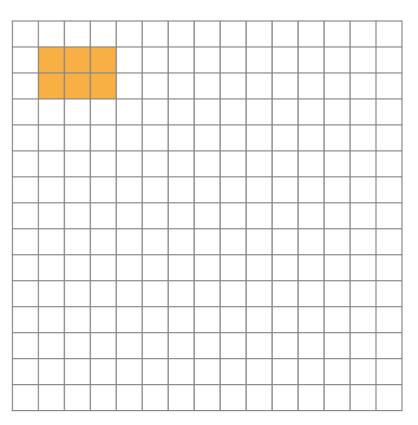


d)

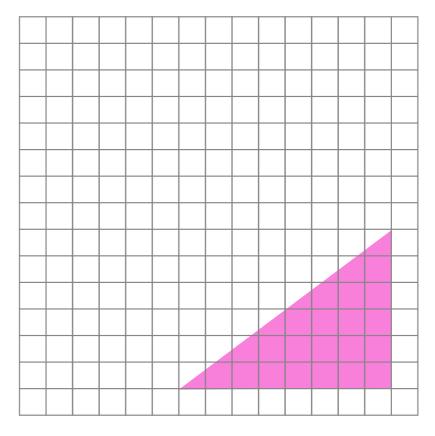




2 Draw two similar rectangles on the grid.

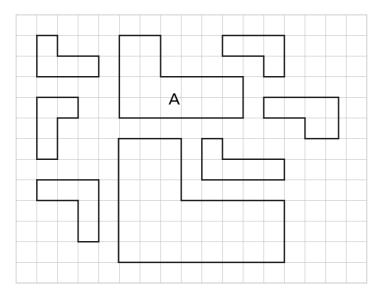


3 Draw two similar triangles on the grid.

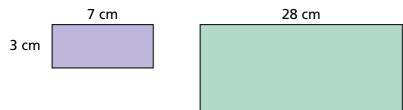




Which of these shapes are similar to shape A? Tick your answers.



5 These two shapes are similar.

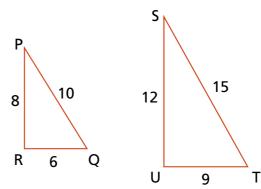


a) Work out the perimeter of the smaller rectangle.

**b)** Work out the perimeter of the larger rectangle.

c) What do you notice about your answers in part a) and part b)? Discuss it with a partner.





a) Work out the ratios, giving your answers in the simplest form.

- **b)** What do you notice about your answers?
- c) Work out the ratios, giving your answers in the simplest form.

d) Triangle XYZ is similar to triangle PRQ

$$XY = 78$$

Find the value of YZ.



