Yr 6 Multiplication and Division Unit 1 (6481)

Additional teacher instructions for practice sheets

These notes indicate which practice sheets are most appropriate for which groups.

Day 1 Toy designs Sheet 1
Working towards ARE / Working at ARE / Greater Depth
Greater Depth attempt the challenge.

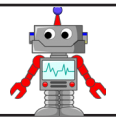
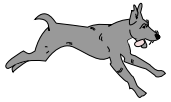
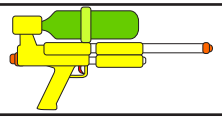
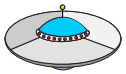
Day 2 Similar shapes - rectangles Sheet 1
Working towards ARE / Working at ARE / Greater Depth
To print at correct size, please print on A4 and tick the 'Actual Size' box on your printer settings.

Day 2 Similar shapes - triangles Sheet 2
Working towards ARE / Working at ARE / Greater Depth
To print at correct size, please print on A4 and tick the 'Actual Size' box on your printer settings.

Toy designs

Sheet 1

A toy designer has drawn sketches to scale. Use the scale factor to work out the length and height of the actual toy or drawing.

Toy	Drawn width and height	Scale factor	Actual width and height
	7cm by 4.5cm	× 4	
	5cm by 8cm	× 3	
	16cm by 24cm	× 1.5	
	10cm by 6cm	× 2.5	
		× 2	32cm by 12cm
		× 4	18cm by 24cm

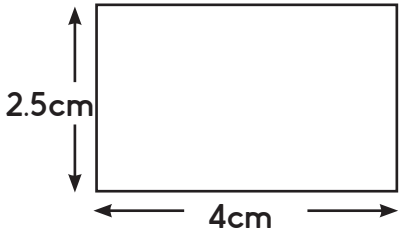
Challenge

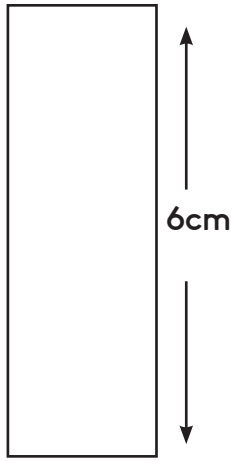
An ant measures 8mm by 6mm. Work out a scale factor so that a drawing of it would almost fill a page in your book!

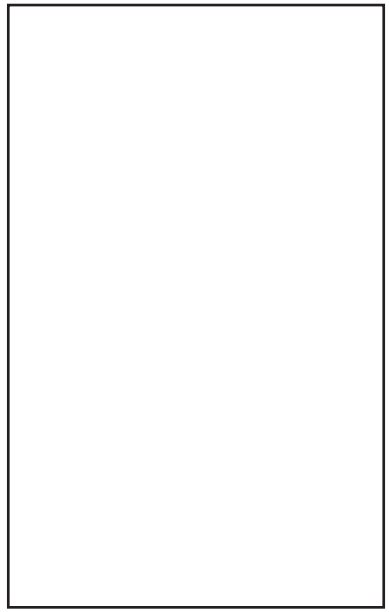
Similar shapes – rectangles

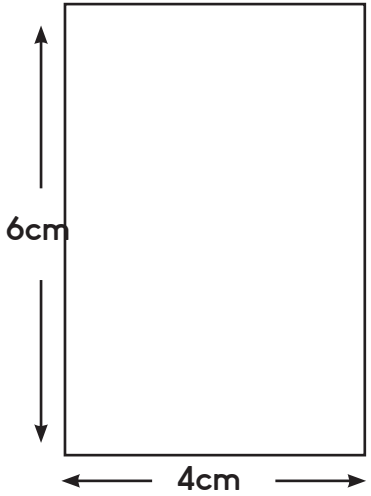
Sheet 1

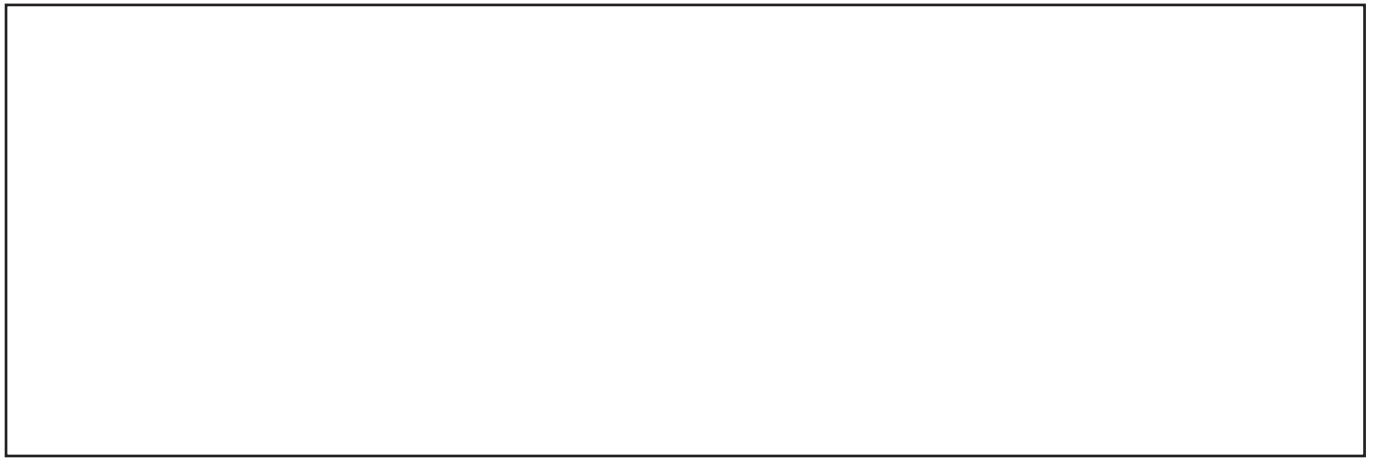
Look for pairs of similar shapes. Measure one side of the similar shape without any measurements. Find the scale factor between the two shapes. Now work out the lengths of the other sides of the larger shape. Measure to check.







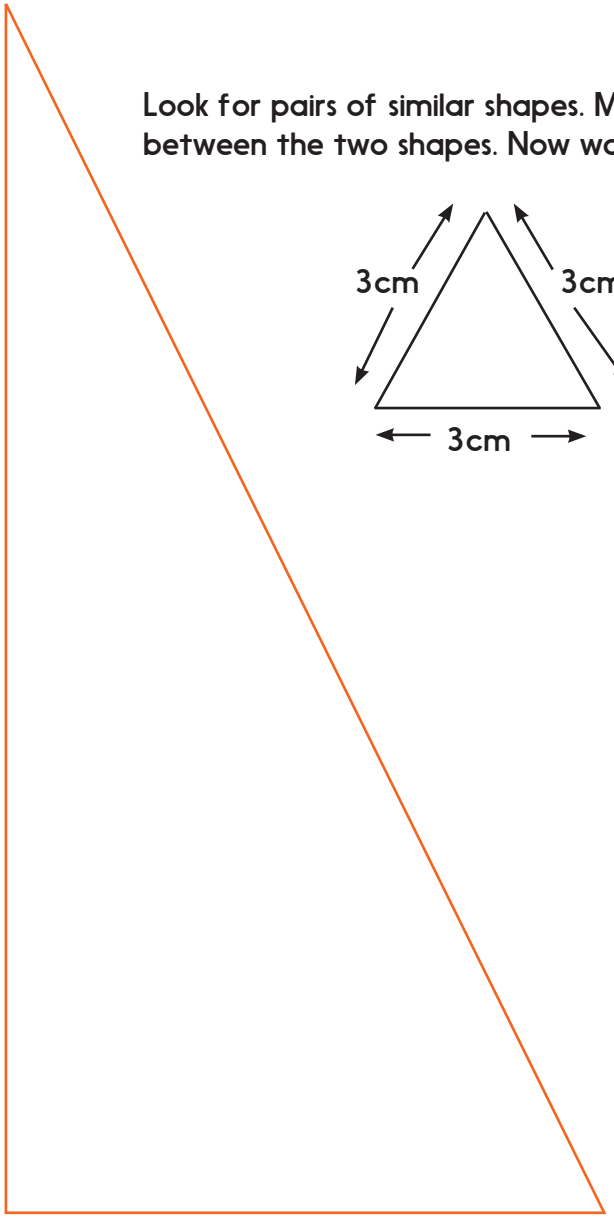


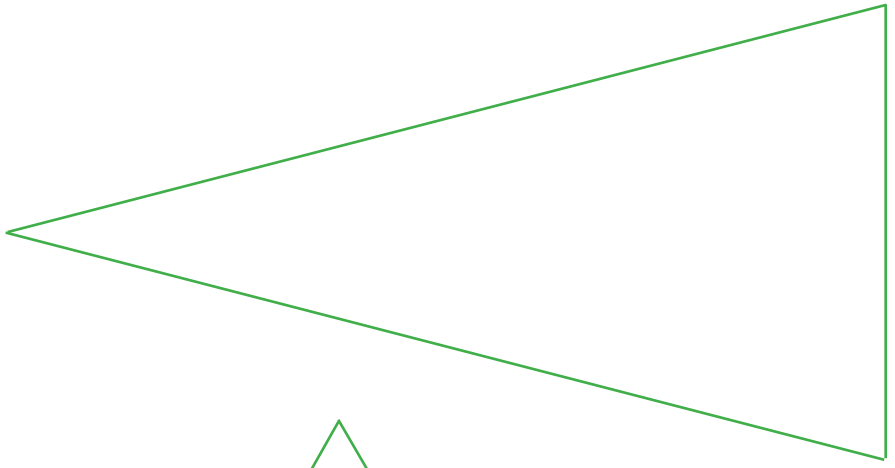


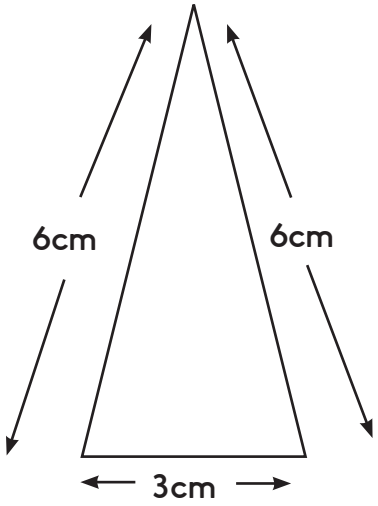
Similar shapes – triangles

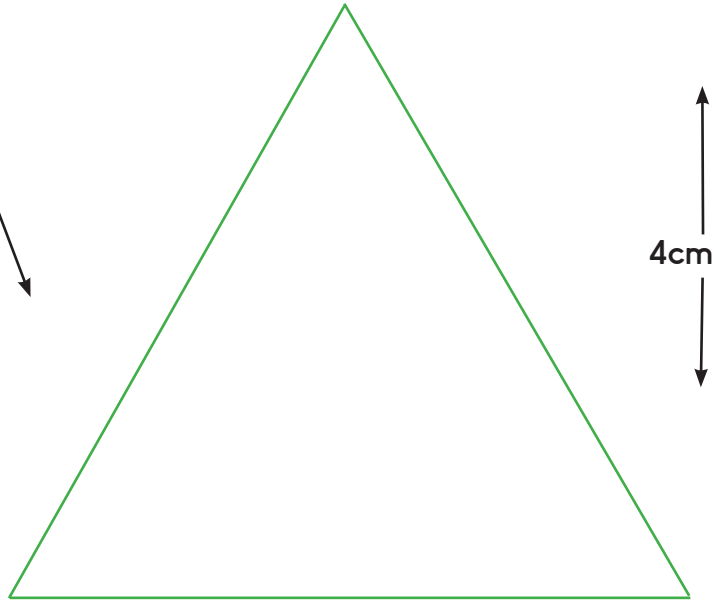
Sheet 2

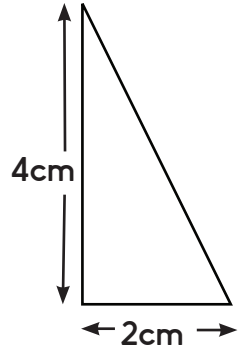
Look for pairs of similar shapes. Measure one side of the similar shape without any measurements. Find the scale factor between the two shapes. Now work out the lengths of the other sides of the larger shape. Measure to check.







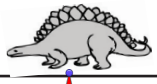
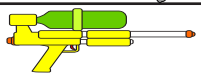
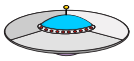




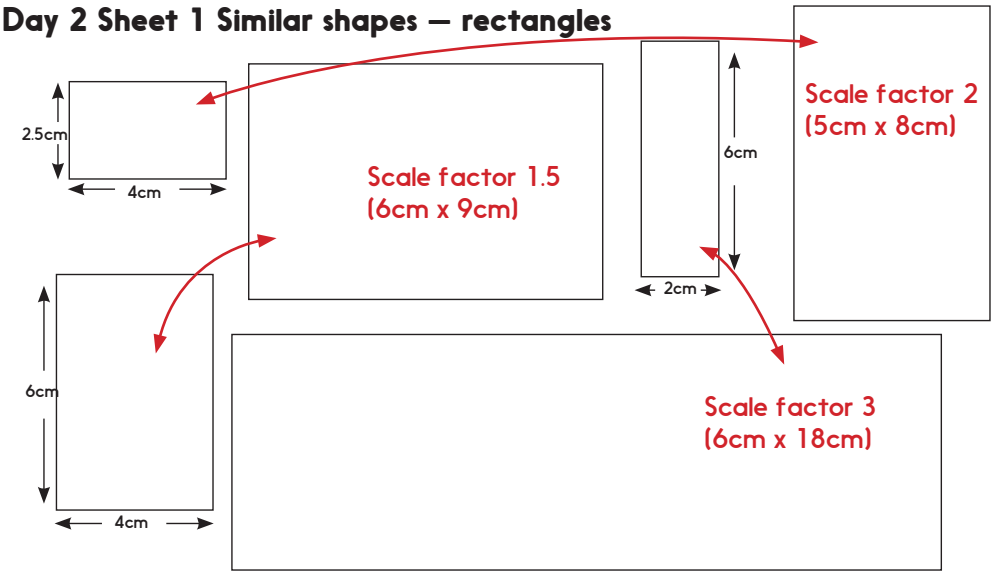
Multiplication and division

Answers

Day 1 Toy designs Sheet 1

Toy	Drawn width and height	Scale factor	Actual width and height
	7cm by 4.5cm	× 4	28cm by 18cm
	5cm by 8cm	× 3	15cm by 24cm
	16cm by 24cm	× 1.5	24cm by 36cm
	10cm by 6cm	× 2.5	25cm by 15cm
	16cm by 6cm	× 2	32cm by 12cm
	4.5cm by 6cm	× 4	18cm by 24cm

Day 2 Sheet 1 Similar shapes – rectangles



Day 2 Sheet 2 Similar shapes – triangles