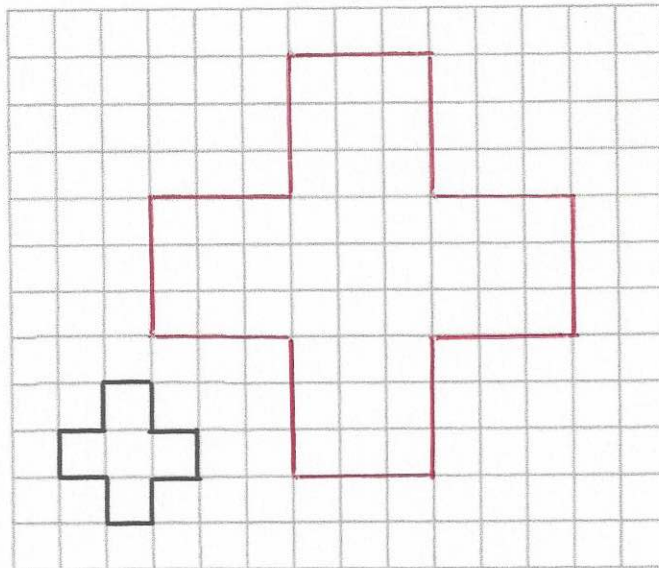


3rd September



On the grid, enlarge the shape using a scale factor of 3.



Here is a route map between four towns. The distances, in kilometres, between some of the towns are shown on the map.

The distance from Swantown to Oldville is 95 kilometres.

$$95 - 74 = 21$$

Work out the distance from Newham to Oldville.

21 km

Complete the distance chart.

Swantown			
42	Green Island		
74	32	Newham	
95	53	21	Oldville

Express 24 as a product of its prime factors. Give your answer in index form.

$$2^3 \times 3$$

Handwritten work for 24: 24 ÷ 2 = 12, 12 ÷ 2 = 6, 6 ÷ 2 = 3, 3 ÷ 3 = 1. Final answer: 2³ × 3.

Express 108 as a product of its prime factors. Give your answer in index form.

$$2^2 \times 3^3$$

Handwritten work for 108: 108 ÷ 2 = 54, 54 ÷ 2 = 27, 27 ÷ 3 = 9, 9 ÷ 3 = 3, 3 ÷ 3 = 1. Final answer: 2² × 3³.