



**5th December**

A fish tank sprung a leak and loses 45% of its water.  
There is now 363 litres of water in the fish tank.

How much water was in the fish tank before the leak?

$$55\% = 363$$

$$1\% = 6.6$$

$$100\% = 660 \text{ litres}$$

The cost of buying a coffee and a tea in a cafe is £4  
The cost of buying a coffee and three teas in a cafe is £7  
Work out the cost of buying a coffee and the cost of buying a tea.

$$x + y = 4$$

$$x + 3y = 7$$

$$\underline{\hspace{1cm}}$$

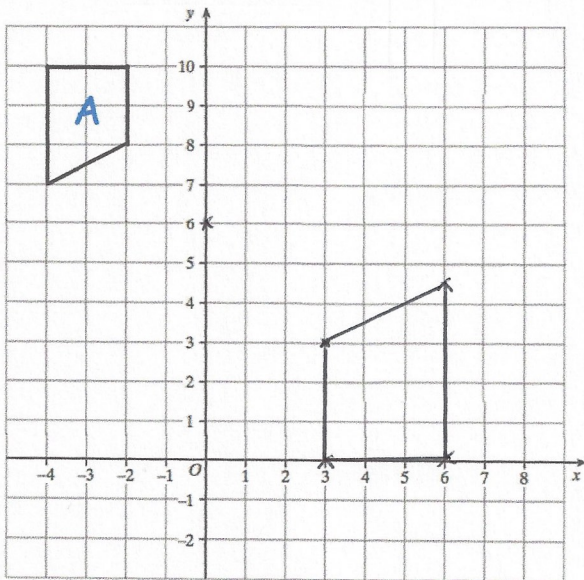
$$2y = 3$$

$$y = 1.5$$

$$x = 2.5$$

coffee £2.50

tea £1.50



Enlarge the triangle by scale factor  $-1.5$ , using centre of enlargement  $(0, 6)$

Work out

$$16^{\frac{3}{2}}$$

$$\sqrt{16} = 4$$

$$4^3 = 64$$


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