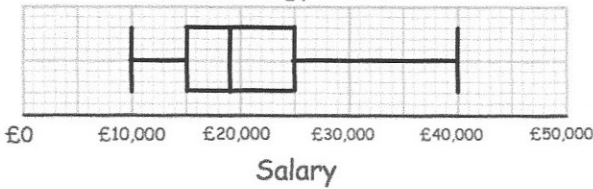


Total area
 $\pi \times 5^2 = 25\pi$
 Quarter circle
 $\frac{25}{4}\pi$

A rectangle is drawn inside of a circle with centre O. The rectangle is 4cm by 3cm. Find the shaded area.

$$\frac{25}{4}\pi - 12 = 7.63 \text{ cm}^2$$

Archaeology Graduates



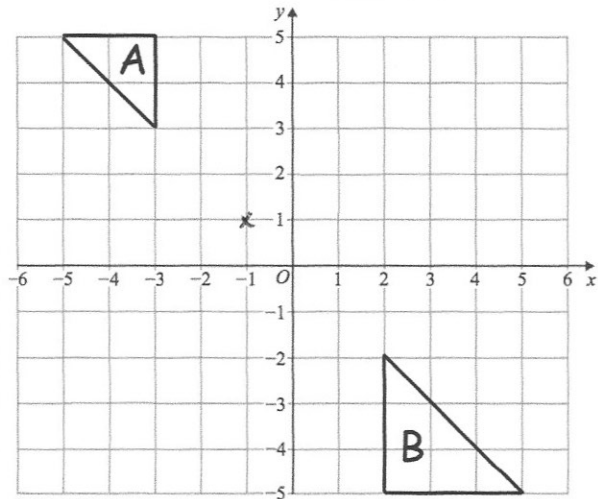
Write down the value of the interquartile range

$$25000 - 15000$$

$$£10000$$

Describe fully the single transformation that maps shape A onto shape B.

Enlargement
 scale factor - 1.5
 centre (-1, 1)



a is 60% more than b

$$a = 1.6b$$

5c = 2b

$$5c = 8b$$

Find the ratio a : b : c

$$8 : 5 : 2$$

a	b	c
8	5	
	5	2

Florence has these letter tiles. (1)

M A T H E M A T I C S

She picks two tiles at random without replacement.

Calculate the probability that she picks two letter M's.

$$\frac{2}{11} \times \frac{1}{10} = \frac{2}{110}$$

$$\frac{1}{55}$$