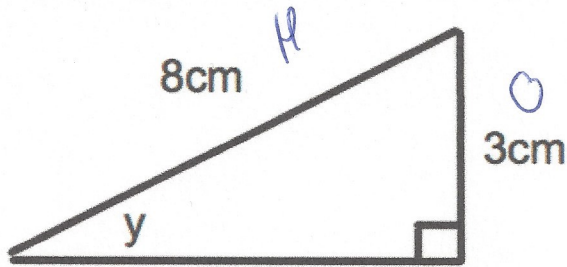


1st August

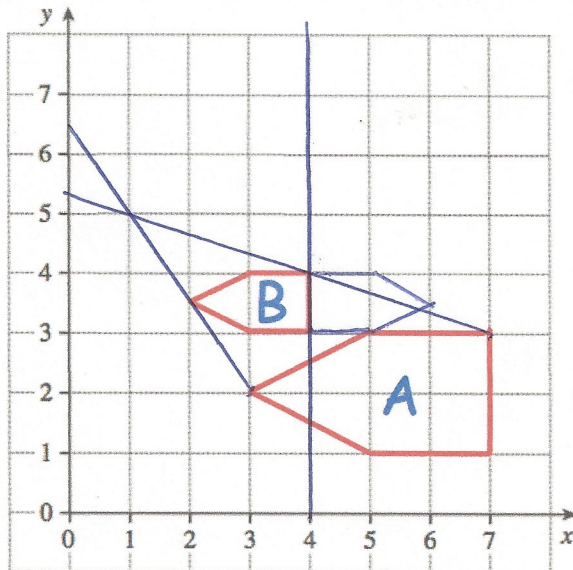


Corbettmaths

Calculate angle y

$$\sin y = \frac{3}{8}$$

$$y = \sin^{-1}\left(\frac{3}{8}\right) = 22.02^\circ$$



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

Enlargement by sf $\frac{1}{2}$
with centre of enlargement (1, 5)

Reflect shape B using $x = 4$ as the mirror line

There are three colours of beads in a bag.

The ratio of red to yellow beads is 8:3

The ratio of green to yellow beads is 9:2.

What fraction of the beads are green?

$$\begin{array}{l} R : Y : G \\ 8 : 3 \\ \times 2 \left(\begin{array}{l} 8 : 3 \\ 2 : 9 \end{array} \right) \times 3 \quad \frac{27}{49} \\ \rightarrow 16 : 6 \\ 16 : 6 : 27 \end{array}$$

Work out the reciprocal of 20.
Give your answer as a decimal

$$\frac{1}{20} = 0.05$$