

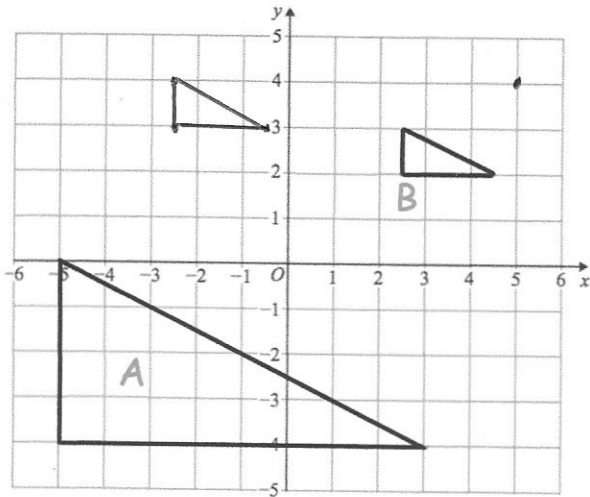
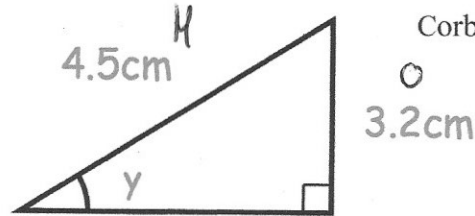


Calculate angle  $y$

$5^0 11$

$$\sin y = \frac{3.2}{4.5}$$

$$y = 45.3254^\circ$$



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

Enlargement by scale factor  $\frac{1}{4}$ , centre  $(5, 4)$

Translate triangle B by  $\begin{pmatrix} -5 \\ 1 \end{pmatrix}$  5 left, 1 up

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?

$$R : Y : G$$

$$8 : 3$$

$$\times 2 \left( \begin{array}{l} 2 : 9 \\ 16 : 6 : 27 \end{array} \right) \times 3$$

$\frac{27}{49}$

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

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