



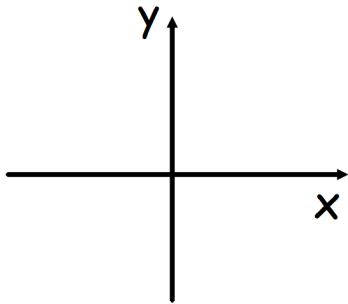
4 blue socks and 6 black socks are in a drawer.

Anju takes out two socks at random.

Work out the probability that Anju takes out two socks are different colours.

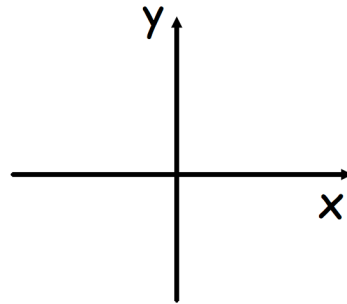
Sketch

$$y = \frac{1}{x}$$



Sketch

$$y = 4^x$$



Ornaments A and B are mathematically similar. They are solid and both made from copper and zinc.

Ornament A has a height of 5cm and volume of  $30\text{cm}^3$

Ornament B has a height of 18cm.

The ornaments are made from copper and zinc in the ratio 3:2

The density of copper is  $8.96\text{g/cm}^3$

The density of zinc is  $7.13\text{g/cm}^3$

Work out the difference in mass between ornament A and ornament B.