

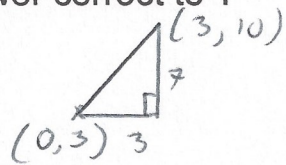
9th August



Corbettmaths

Calculate the distance between the coordinates (0, 3) and (3, 10).

Give your answer correct to 1 decimal place.



$$\sqrt{(3-0)^2 + (10-3)^2}$$

$$\sqrt{3^2 + 7^2}$$

$$= 7.6$$

Matthew is playing darts.  
The probability he hits a bullseye is 0.4

Matthew throws two darts.

Find the probability Matthew hits the bullseye with both darts

$$0.4 \times 0.4 = 0.16$$

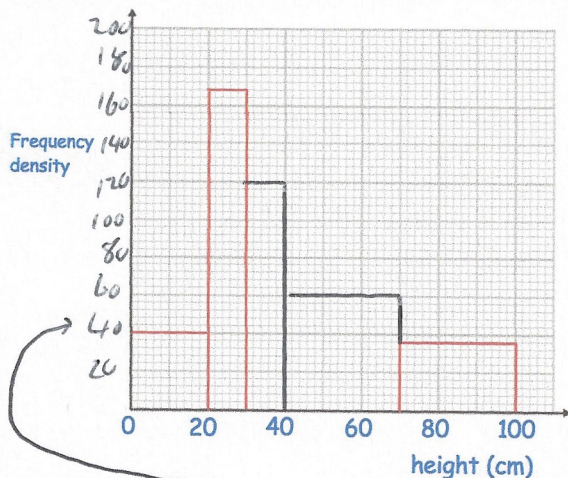
Two containers are mathematically similar.

The height of container A is 5cm.  $2 \times 2$   
The height of container B is 10cm

The volume of B is  $240\text{cm}^3$

What is the volume of A?

$$240 \div 2^3 = 30\text{cm}^3$$



$$800 \div 20 = 40$$

(a) Complete the table

Height (h cm)	Frequency
$0 < h \leq 20$	800
$20 < h \leq 30$	1680
$30 < h \leq 40$	1200
$40 < h \leq 70$	1800
$70 < h \leq 100$	1080

$$1200 \div 10 = 120$$

$$1800 \div 30 = 60$$

(b) Use the table to complete the histogram.