



Calculate the distance between (3, 8) and (5, 0).

$$\sqrt{8^2 + 2^2} = \sqrt{68}$$

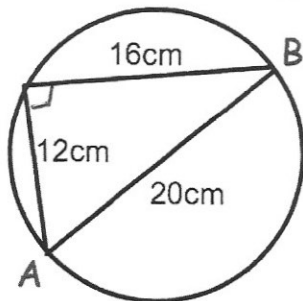
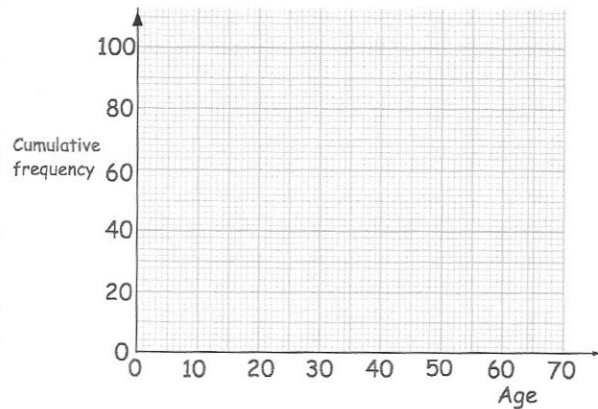
$$= 8.2462\dots$$

Age, $x$ years	Frequency
$20 < x \leq 30$	12
$30 < x \leq 40$	30
$40 < x \leq 50$	28
$50 < x \leq 60$	22
$60 < x \leq 70$	8

Complete the cumulative frequency table.

Age, $x$ years	Cumulative Frequency
$20 < x \leq 30$	12
$20 < x \leq 40$	42
$20 < x \leq 50$	70
$20 < x \leq 60$	<del>92</del> 92
$20 < x \leq 70$	100

Draw the cumulative frequency graph for this information.



Is AB the diameter of the circle?  
Explain your answer

$$12^2 + 16^2 = 400$$

$$20^2 = 400$$

as Pythagoras' theorem applies ( $a^2 + b^2 = c^2$ )  
it is a right angled triangle  
 $\therefore$  AB is the diameter

Work out  $1000^{\frac{1}{3}}$       $\sqrt[3]{1000} = 10$

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