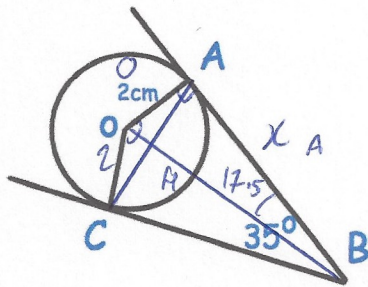


10th March



Corbettmaths



Find the length of the line AB

$$\frac{2}{\tan 17.5} = 6.343 \text{ cm}$$

Find the length of the line OB

50R

$$\frac{2}{\sin 17.5} = 6.651 \text{ cm}$$

Find the length of the line AC

$$\angle AOC = 145^\circ$$

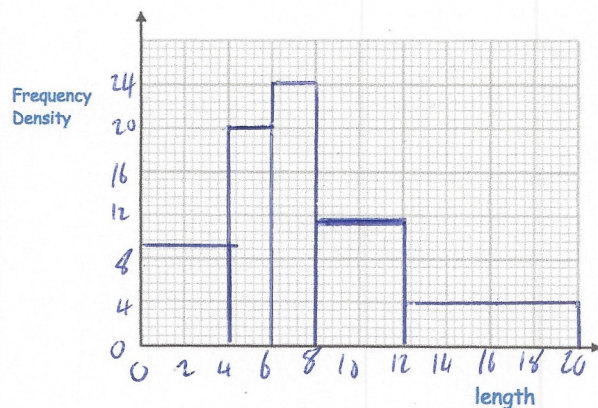
$$AC^2 = 2^2 + 2^2 - 2 \times 2 \times 2 \cos 145^\circ$$

$$AC^2 = 14.5532 \dots$$

$$AC = 3.8148678 \text{ cm}$$

Length, l	Frequency	f0
$0 < l \leq 4$	36	9
$4 < l \leq 6$	40	20
$6 < l \leq 8$	48	24
$8 < l \leq 12$	44	11
$12 < l \leq 20$	32	4

Draw a histogram for this data.

Solve $(y - 8)(y + 8) = 63y$

$$y^2 - 64 = 63y$$

$$y^2 - 63y - 64 = 0$$

$$(y - 64)(y + 1) = 0$$

$$y = 64 \text{ or } y = -1$$