

Find the length of the line AC

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

Find the distance OC.

S<sup>o</sup>H

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

Find the length of the chord AB

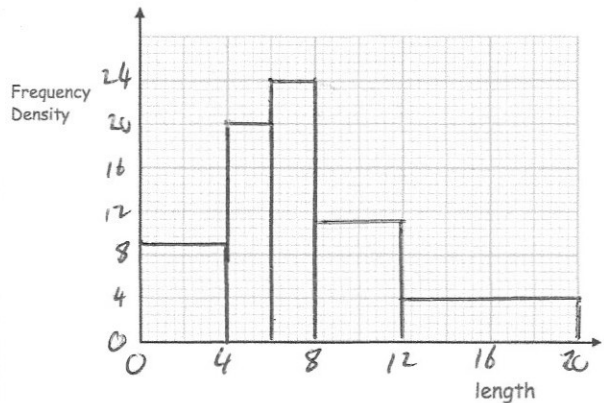
$$\angle AOB = 145^\circ$$

$$AB^2 = 2^2 + 2^2 - 2 \times 2 \times 2 \times \cos 145$$

$$AB^2 = 14.5532 \dots$$

$$AB = 3.81487 \text{ cm}$$

Length, l	Frequency	fd
0 < l ≤ 4	36	9
4 < l ≤ 6	40	20
6 < l ≤ 8	48	24
8 < l ≤ 12	44	11
12 < l ≤ 20	32	4



Draw a histogram for this data.

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

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

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

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

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