

HW - Connect  $\rightarrow$  29/9/21 14.A

23 From the figure 1

$$\Rightarrow \angle BOE + \angle DOC + \angle COB + \angle BOA + 85^\circ + 80^\circ + 123^\circ = 360^\circ$$

$$\Rightarrow 85^\circ + 80^\circ + 123^\circ + 5x^\circ + x^\circ = 360^\circ$$

$$\Rightarrow 6x^\circ + 288^\circ = 360^\circ$$

$$\Rightarrow 6x^\circ = 360^\circ - 288^\circ = 72^\circ$$

$$\Rightarrow x^\circ = \frac{72}{6} = 12^\circ$$

$$\Rightarrow \angle AOB = 5x^\circ = 60^\circ$$

$$\Rightarrow \angle BOC = 12^\circ$$

$$24 \quad 2y^\circ + 2y^\circ + 2\frac{1}{2}^\circ + 3\frac{1}{2}^\circ = 360^\circ$$

$$= 4y^\circ + 5y^\circ = 360^\circ$$

$$= 9y^\circ = 360^\circ$$

$$y = \frac{360}{9} = 40^\circ$$

$$y = 40^\circ$$

$$25 \Rightarrow x + x + 90^\circ + 90^\circ + 45^\circ + 45^\circ = 360^\circ$$

$$\Rightarrow 180 + 270^\circ = 360^\circ$$

$$\Rightarrow x = 45^\circ$$

$$\text{ii) } x = 3a$$

$$y = 5x = 5 \times 3a = 15a$$

$$z = 6x = 6 \times 3a = 18a$$