

$$6. \quad a) \quad \frac{1}{15} \text{ of } 360^\circ = \frac{360^\circ}{15} = 24^\circ$$

$$b) \quad 25 \text{ minutes} \Rightarrow 60 \text{ mins} \Rightarrow 360^\circ \\ 25 \text{ mins} \Rightarrow \frac{25}{60} \cdot 360^\circ \\ = 150^\circ$$

$$c) \quad \frac{3}{8} \cdot 360^\circ = 3 \cdot 45^\circ = 135^\circ$$

$$d) \quad \frac{2}{3} - \frac{1}{4} = \frac{8}{12} - \frac{3}{12} = \frac{5}{12} \\ \frac{5}{12} \cdot 360^\circ = 150^\circ$$

$$7. \quad a) \quad \frac{36}{360} = \frac{1}{10} \Rightarrow 10\% \text{ of a circle}$$

$$b) \quad \frac{12}{60} = \frac{1}{5} = \frac{20}{100} \Rightarrow 20\% \text{ of a circle}$$

$$c) \quad \frac{300}{360} = \frac{30}{36} = \frac{10}{12} = \frac{5}{6} = 0.8\bar{3} \Rightarrow \\ 83\%$$

8. First $\alpha = 24^\circ$

Second $\alpha = 32^\circ$ $R = 32^\circ$

9.

