

4(i) Outcomes are 10

1, 2, 3, 4, 5, 6, 7, 8, 9, 10

$$(i) P(6) = \frac{1}{10}$$

(ii) nos less than 6 are 1, 2, 3, 4, 5

$$P(\text{no. less than 6}) = \frac{\cancel{5}1}{\cancel{10}2} \\ = \frac{1}{2}$$

(iii) nos greater than 6 are 7, 8, 9, 10

$$P(\text{no. greater than 6}) = \frac{\cancel{4}2}{\cancel{10}5} \\ = \frac{2}{5}$$

$$(iv) P(\text{1 digit no.}) = \frac{9}{10}$$

$$(5) \text{ total sectors} = 3 + 1 + 1 \\ = 5$$

$$P(\text{green sector}) = \frac{3}{5}$$

$$P(\text{blue sector}) = \frac{1}{5}$$