

13. Outcomes are 1, 2, 3, 4, 5, 6

$$P(\text{prime no.}) = \frac{3}{6}$$

$$= \frac{1}{2}$$

$$P(\text{no. between 2 and 6}) = \frac{3}{6}$$

$$= \frac{1}{2}$$

$$P(\text{odd no.}) = \frac{3}{6}$$

$$= \frac{1}{2}$$

14 (i) $P(\text{red king})$

$$= \frac{2}{52}$$

$$= \frac{1}{26}$$

(ii) $P(\text{face card})$

$$= \frac{12}{52}$$

$$= \frac{3}{13}$$

(iii) $P(\text{red face card})$

$$= \frac{6}{52}$$

$$= \frac{3}{26}$$

(iv) $P(\text{jack of hearts})$

$$= \frac{1}{52}$$

(v) $P(\text{spade})$

$$= \frac{13}{52}$$

$$= \frac{1}{4}$$

(vi) $P(\text{queen of diamonds}) = \frac{1}{52}$