

Ex. $24(C) \rightarrow 6, 7, 8, 9, 10$

$24(E) \rightarrow 1, 2, 4, 5, 7, 8, 9, 11, 13, 15,$
 $19, 20$

PROBABILITY

$$P(A) = \frac{\text{Number of favourable outcomes (m)}}{\text{Total number of outcomes (n)}}$$

\downarrow
Event

(I) Tossing a coin

$$S = \{H, T\}$$

\swarrow
Sample space

(II) Tossing 2 coins

$$S = \{HH, HT, TH, TT\}$$

(III) Tossing 3 coins

$$S = \{HHH, HHT, HTH, THH, HTT, THT, TTH, TTT\}$$

(IV) Throwing a dice

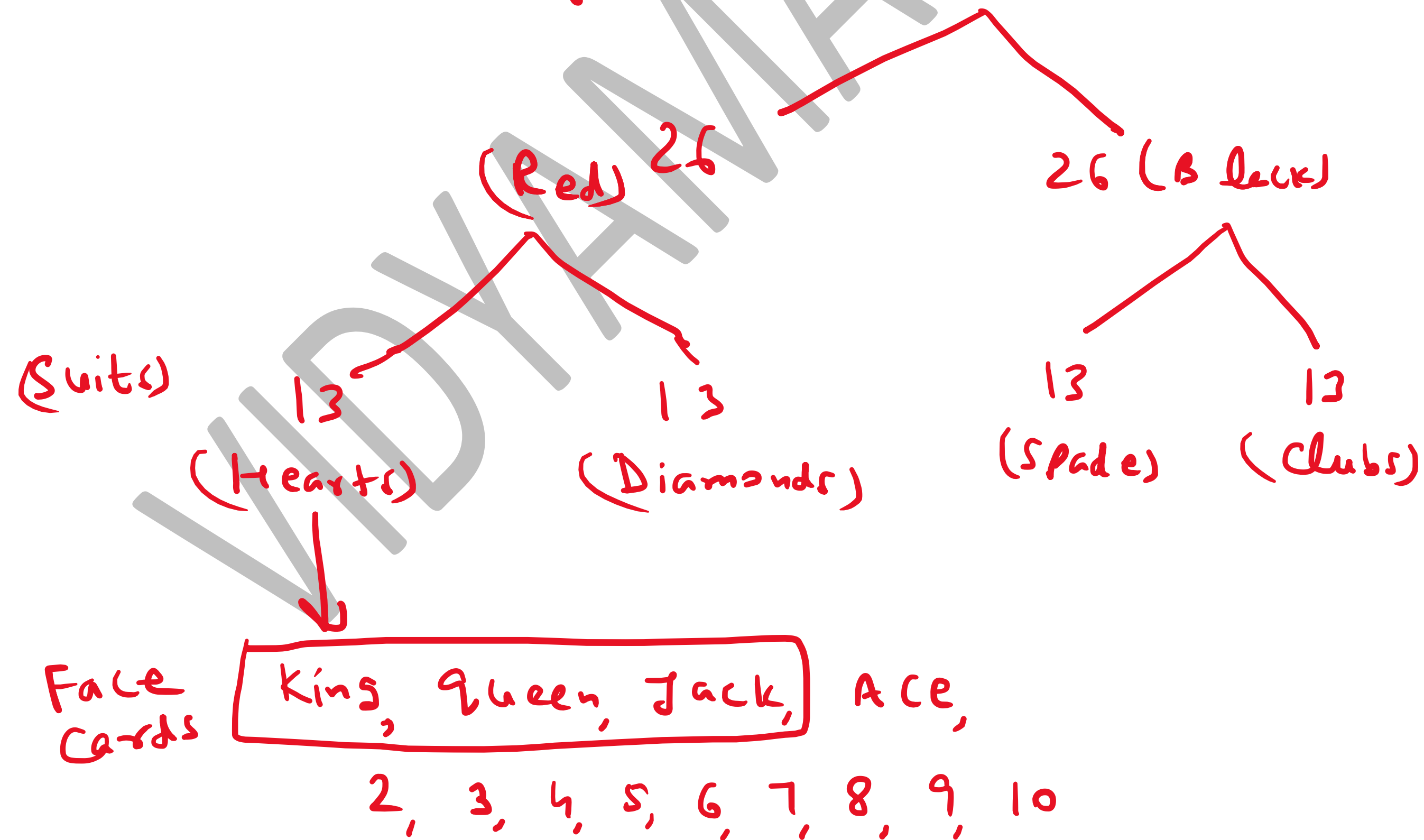
$$S = \{1, 2, 3, 4, 5, 6\}$$

(V) Throwing 2 dice,

$S = \{ (1, 1) (1, 2) (1, 3) (1, 4) (1, 5) (1, 6)$
 $(2, 1) \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad (2, 6)$
 $(3, 1) \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad (3, 6)$
 $(4, 1) \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad (4, 6)$
 $(5, 1) \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad (5, 6)$
 $(6, 1) \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \quad (6, 6) \}$

(Vi) Playing Cards

No. of Cards = 52



Complementary events :-

$$P(A') = \frac{\text{Number of unfavourable outcome}}{\text{Total no. of outcomes}}$$

$$P(A') = \frac{n-m}{n} = \frac{5-3}{5} = 1 - \frac{3}{5}$$

$$P(A') = 1 - P(A)$$

Or $P(A) + P(A') = 1$

If Probability = 1 (certain event)

Probability = 0 (Impossible event)

Otherwise $0 \leq P(A) \leq 1$

H.W. → Ex. 25 (A) → Full

Ex. 25 (B) → 2, 3, 4, 8, 9, 10, 11, 12, 14

Ex. 25 (C) → 1, 2, 3, 7, 11, 14, 16, 19,
20, 29, 31, 34

Tomorrow is a holiday

Next week Thursday → doubt discussion of
today's homework

Friday → Test of Statistics &
Probability
(Ch. 23, 24, 25)