

QW

Surprise Test

(1) (1) No. of outcomes - 1000 times

Tail = 545

$$P(\text{Tail}) = \frac{545}{1000} = 0.545 \quad \checkmark \text{ True}$$

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

Am \Rightarrow Both A & R are individually true but R is not correct explanation of A

(2) Sum of probabilities = 1

Because there are all possible events

(3) No. of ^{or black card} ace = 26

Total No. of cards = 52

$$\text{So } P(E) = \frac{26}{52} = \frac{1}{2}$$

$$\text{So } Am = \frac{26}{52}$$

(4) Probability of not hitting boundaries = 18

Total outcome = 30

$$P(E) = \frac{18}{30} = \frac{9}{15} = \frac{3}{5}$$

(5) Probability of impossible event = 0

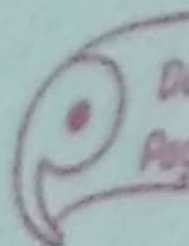
(6) Performing an event once is called Trial

(7) No. of King, Queen or Jack = 16

Total cards = 52

$$P(E) = \frac{16}{52}$$

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(8) Total outcome = 16

No. divisible by 3 & 6 = 5

$$\text{So } P(E) = \frac{5}{16}$$

(9) $P(E) = \frac{1}{2}$

(10) Maximum probability = 1.