1) The probability of each event, when a coin is tossed for 1000 times with frequencies: Head:455 & Tail: 545 is:

a. 0.455 & 0.545
b. 0.5 & 0.5
c. 0.45 & 0.55
d. 455 & 545

Answer/ Explanation

Answer: (a)

Explanation: Let E and F are the event of the occurrence of Head and Tail respectively.

Probability of Occurrence of Head P(E) = No. of heads/total number of trials

P(E) = 455/1000 = 0.455

Similarly,

P(F) = No. of tails/total number of trials

P(F) = 545/1000 = 0.545

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2) The sum of all probabilities equal to:

a. 4
b. 1
c. 3
d. 2

Answer/ Explanation

Answer: (b)

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3) The probability of each event lies between:

a. 1 & 2
b. 1 & 10
c. 0 & 1
d. 0 & 5

Answer: (c)

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4) If P(E) = 0.44, then P(not E) will be:
a. 0.44
b. 0.55
c. 0.50
d. 0.56

Answer: (d)
Explanation: We know;

$P(E) + P(not\ E) = 1$

$0.44 + P(not\ E) = 1$

$P(not\ E) = 1 – 0.44 = 0.56$

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5) If P(E) = 0.38, then probability of event E, not occurring is:
a. 0.62
b. 0.38
c. 0.48
d. 1

Answer: (a)
Explanation: $P(not\ E) = 1 – P(E) = 1-0.38 = 0.62$

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6) The probability of drawing an ace card from a deck of cards is:
a. 1/52
b. 1/26
c. 4/13
d. 1/13

Answer: (d)

Explanation: There are 4 aces in a deck of card.

Hence, the probability of taking one ace out of 52 card = 4/52 = 1/13

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7) If probability of an event to happen is 0.3 and the probability of event not happening is:

a. 0.7

b. 0.6

c. 0.5

d. None of the above

Answer: (a)

Explanation: Probability of a event not happening = 1 – P(E)

P(not E) = 1 – 0.3 = 0.7

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8) A dice is thrown. The probability of getting 1 and 5 is:

a. ⅙

b. ⅔

c. ⅓

d. ½

Answer: (c)

Explanation: The probability of getting 1 and 5 = 2/6 = ⅓

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9) A batsman hits boundaries for 6 times out of 30 balls. Find the probability that he did not hit the boundaries.

a. ⅕

b. ⅖

c. ⅗

d. ⅘

Answer: (d)
Explanation: No. of boundaries = 6

No. of balls = 30

No. of balls without boundaries = 30 – 6 =24

Probability of no boundary = 24/30 = ⅘

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10. Three coins were tossed 200 times. The number of times 2 heads came up is 72. Then the probability of 2 heads coming up is:
a. 1/25
b. 2/25
c. 7/25
d. 9/25

Answer: (d)
Explanation: Probability = 72/200 = 9/25