Mathematics
Grade 9

Name: _____ **No.** ____ **G.9/**___

Probability: Probability That An Event Does Not Happen

$$P(A\ does\ not\ happen) = 1 - P(A\ does\ happen)$$

1. A card is drawn at random from an ordinary pack of playing cards. What is the probability that it is not three?

Solution $P(a\ three) = \frac{number\ of\ choices\ that\ are\ threes}{total\ number\ of\ possible\ choices} = - = -$

$\mathrm{P(not\ a\ three)} = 1 - -$

$= - - - = - = 92.31\%$

Answer: $- = 92.31\%$

LIVEWORKSHEETS

3. A number is chosen at random from the first 20 natural numbers. What is the probability that it is not exactly divisible by 5?

Solution $P(it\ is\ divisible\ by\ 5) = \frac{number\ of\ choices\ that\ are\ exactly\ divisible\ by\ 5}{total\ number\ of\ possible\ choices}$

$$P(it\ is\ divisible\ by\ 5) = - = -$$

$$P(not\ divisible\ by\ 5) = 1 - -$$

$$= - - -$$

$$= - = 80\%$$

Answer: $- = 80\%$

LIVEWORKSHEETS