**Simple Probability**

|  |  |  |
| --- | --- | --- |
| Name : | Class : | Date : |

|  |  |  |
| --- | --- | --- |
| Mark : | /15 | % |

|  |  |
| --- | --- |
| **1)** Describe each position A, B, C, D and E on the probability scale using appropriate vocabularly      http://www.mathster.com/course/simgs/129220241656_1.png | [1]   |
| **2)** Noah tosses a coin. Find the probability he gets a head.       | [1]   |
| **3)** Lottie rolls a dice. Find the probability she gets a four.       | [1]   |
| **4)** Isabella rolls a dice. Find the probability she gets a number greater than 3.       | [1]   |
| **5)** Find the probability that for a random spin of the spinner, the arrow points to 8.http://www.mathster.com/course/simgs/129220241656_2.png            | [1]   |
| **6)** Find the probability that for a random spin of the spinner, the arrow points to 2.http://www.mathster.com/course/simgs/129220241656_3.png            | [1]   |
| **7)** If you select a card at random from a standard pack of 52 playing cards (ace is counted as 1), find the probability of choosing      a) a nine of Diamonds       b) a Heart      c) a nine    | [1]   |
| **8)** If you select a card at random from a standard pack of cards (ace is counted as 1), find the probability of choosing      a) an Ace of Hearts    b) a Heart or Club    c) a number smaller than 9   | [1]   |
| **9)** A number is chosen at random from the set of numbers given below.1,2,3,4,5,6,7,8,9,10,11Find the probability that the number isa)  an even number         b)  an odd number          | [1]   |
| **10)** A bead is drawn randomly from a jar that contains 2 red beads, 4 blue beads, and 5 green beads. Find the probability of selecting      a)  a red bead         b)  a blue bead         c)  a green bead      | [1]   |
| **11)** Sam chooses a letter at random from the word SEVEN. Find the probability that he chooses      a)  an N         b)  an E      | [1]   |
| **12)** A group of people were asked if they owned a rabbit. 87 responded "yes", and 164 responded "no".Find the probability that if a person is chosen at random, they own a rabbit.           | [1]   |
| **13)** A roulette wheel has slots numbered from 1 to 38.Find the probability that the ball lands on an even number.           | [1]   |
| **14)** Elsie bought a bag of sweets, 5 of them are green, 4 are blue and 4 are white. Find the probability that a randomly selected sweet is      a)  not green        b)  green or blue     | [1]   |
| **15)** The English Alphabet contains 26 letters. Find the probability of      a) choosing a vowel             b) not choosing a consonant    | [1]   |

**Solutions for the assessment Simple Probability**

|  |  |
| --- | --- |
| **1)** A = impossible, B = unlikely, C = evens, D = likely, E = certain | **2)** P(head) =  $\frac{1}{2}$ |
| **3)** P(four) =  $\frac{1}{6}$ | **4)** P(a number greater than 3) =  $\frac{1}{2}$ |
| **5)**  $\frac{1}{9}$ | **6)**  $\frac{1}{3}$ |
| **7)** a) P(a nine of Diamonds) =  $\frac{1}{52}$b) P(a Heart) =  $\frac{1}{4}$c) P(a nine) =  $\frac{1}{13}$ | **8)** a) P(an Ace of Hearts) =  $\frac{1}{52}$b) P(a Heart or Club) =  $\frac{1}{2}$c) P(a number smaller than 9) =  $\frac{8}{13}$ |
| **9)** a) P(even number) =  $\frac{5}{11}$b) P(odd number) =  $\frac{6}{11}$ | **10)** a) P(red bead) =  $\frac{2}{11}$b) P(blue bead) =  $\frac{4}{11}$c) P(green bead) =  $\frac{5}{11}$ |
| **11)** a) P(an N) =  $\frac{1}{5}$, b) P(an E) =  $\frac{2}{5}$ | **12)**  $\frac{87}{251}$ |
| **13)** P(even number) =  $\frac{1}{2}$ | **14)** a) P(not green) =  $\frac{8}{13}$b) P(green or blue) =  $\frac{9}{13}$ |
| **15)** a) P(choosing a vowel) =  $\frac{5}{26}$b) P(not choosing a consonant) =  $\frac{5}{26}$ |  |