**Simple Probability**

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| **1)** Describe each position A, B, C, D and E on the probability scale using appropriate vocabularly      http://www.mathster.com/course/simgs/96915181374_1.png | [1]   |
| **2)** Elliot tosses a coin. Find the probability he gets a tail.       | [1]   |
| **3)** Hannah rolls a dice. Find the probability she gets a five.       | [1]   |
| **4)** Joel rolls a dice. Find the probability he gets a number less than or equal to five.       | [1]   |
| **5)** Find the probability that for a random spin of the spinner, the arrow points to 7.http://www.mathster.com/course/simgs/96915181374_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/96915181374_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 five of Spades       b) a Club      c) a five    | [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) a five of Diamonds    b) a Club or Diamond    c) a number smaller than 7   | [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 ball is drawn randomly from a jar that contains 2 black balls, 3 brown balls, and 5 purple balls. Find the probability of selecting      a)  a black ball         b)  a brown ball         c)  a purple ball      | [1]   |
| **11)** Harley 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 hamster. 198 responded "yes", and 147 responded "no".Find the probability that if a person is chosen at random, they own a hamster.           | [1]   |
| **13)** A roulette wheel has slots numbered from 0 to 37.Find the probability that the ball lands on an odd number.           | [1]   |
| **14)** Josh bought a bag of sweets, 5 of them are orange, 5 are white and 5 are green. Find the probability that a randomly selected sweet is      a)  not green        b)  white or green     | [1]   |
| **15)** The English Alphabet contains 26 letters. Find the probability of      a) choosing a vowel             b) not choosing a vowel    | [1]   |

**Solutions for the assessment Simple Probability**

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| **1)** A = impossible, B = unlikely, C = evens, D = likely, E = certain | **2)** P(tail) =  $\frac{1}{2}$ |
| **3)** P(five) =  $\frac{1}{6}$ | **4)** P(a number less than or equal to five) =  $\frac{5}{6}$ |
| **5)**  $\frac{1}{10}$ | **6)**  $\frac{1}{4}$ |
| **7)** a) P(a five of Spades) =  $\frac{1}{52}$b) P(a Club) =  $\frac{1}{4}$c) P(a five) =  $\frac{1}{13}$ | **8)** a) P(a five of Diamonds) =  $\frac{1}{52}$b) P(a Club or Diamond) =  $\frac{1}{2}$c) P(a number smaller than 7) =  $\frac{6}{13}$ |
| **9)** a) P(even number) =  $\frac{5}{11}$b) P(odd number) =  $\frac{6}{11}$ | **10)** a) P(black ball) =  $\frac{1}{5}$b) P(brown ball) =  $\frac{3}{10}$c) P(purple ball) =  $\frac{1}{2}$ |
| **11)** a) P(an N) =  $\frac{1}{5}$, b) P(an E) =  $\frac{2}{5}$ | **12)**  $\frac{66}{115}$ |
| **13)** P(odd number) =  $\frac{1}{2}$ | **14)** a) P(not green) =  $\frac{2}{3}$b) P(white or green) =  $\frac{2}{3}$ |
| **15)** a) P(choosing a vowel) =  $\frac{5}{26}$b) P(not choosing a vowel) =  $\frac{21}{26}$ |  |