Simple probability

Name:	Class:	Date:

Mark	/ 12	%

1) Monique bought a bag of sweets, 4 of them are green, 3 are red and 3 are white. [1]

Find the probability that a randomly selected sweet is

a) not red

b) green or white

2) The English Alphabet contains 26 letters. [1]

Find the probability of

a) choosing a consonant

b) not choosing a vowel

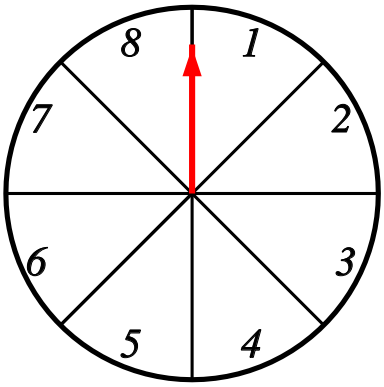
3) Austin tosses a coin. Find the probability he gets a head. [1]

4) Jennifer rolls a dice. Find the probability she gets a four. [1]

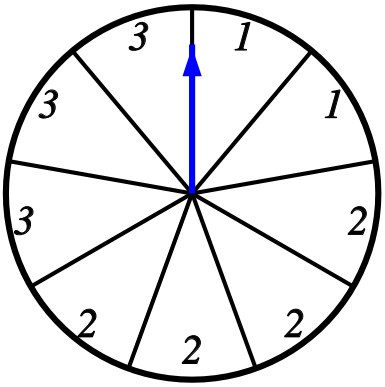
5) Gabrielle rolls a dice. [1]

Find the probability she gets an even number.

6) Find the probability that for a random spin of the spinner, the arrow points to 6. [1]



7) Find the probability that for a random spin of the spinner, the arrow points to 2. [1]



8) 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 three of Diamonds

b) a Heart

c) a three

[1]

9) A bead is drawn randomly from a jar that contains 2 red beads, 5 black balls, and 4 purple beads. [1]

Find the probability of selecting

a) a red bead

b) a black bead

c) a purple bead

10) Devin chooses a letter at random from the word DEGREE. [1]

Find the probability that he chooses

a) a G

b) an E

11) A number is chosen at random from the set of numbers [1]

5,6,7,8,9,10,11,12,13,14,15,16

Find the probability that the number is

a) an even number

b) an odd number

12) A number is chosen at random from the set of numbers below [1]

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18

Find the probability that the number is

a) a square number

b) a prime number

c) a multiple of 4

Solutions for the assessment Simple probability

1) a) P(not red) = $\frac{7}{10}$

b) P(green or white) = $\frac{7}{10}$

2) a) P(choosing a consonant) = $\frac{21}{26}$

b) P(not choosing a vowel) = $\frac{21}{26}$

3) P(head) = $\frac{1}{2}$

4) P(four) = $\frac{1}{6}$

5) P(an even number) = $\frac{1}{2}$

6) $\frac{1}{8}$

7) $\frac{4}{9}$

8) a) P(a three of Diamonds) = $\frac{1}{52}$

b) P(a Heart) = $\frac{1}{4}$

c) P(a three) = $\frac{1}{13}$

9) a) P(red bead) = $\frac{2}{11}$

b) P(black bead) = $\frac{5}{11}$

c) P(purple bead) = $\frac{4}{11}$

10) a) P(a G) = $\frac{1}{6}$, b) P(an E) = $\frac{1}{2}$

11) a) P(even number) = $\frac{1}{2}$

b) P(odd number) = $\frac{1}{2}$

12) a) P(square number) = $\frac{2}{9}$

b) P(prime number) = $\frac{7}{18}$

c) P(multiple of 4) = $\frac{2}{9}$