

NAME:

Period:

SCORE: ____/____ = ____% = ____

HW 9-5

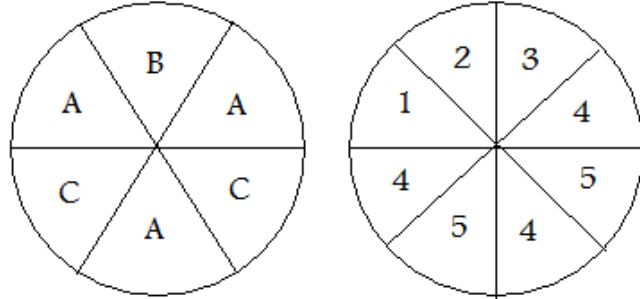
Int 1

Compound Probability

Unit 9

Refer to the spinners on the right to find the probability of each outcome. Write your answers as **SIMPLIFIED** fractions.

1) $P(\text{A and 1})$



2) $P(\text{C and 2})$

7) $P(\text{a consonant and an odd number})$

3) $P(\text{B and 4})$

4) $P(\text{A and 3})$

8) $P(\text{a vowel and a 5})$

5) $P(\text{C and 4})$

9) $P(\text{a consonant and a prime number})$

6) $P(\text{B and 5})$

10) $P(\text{a vowel and a number less than 4})$

In a bag, there are 5 red marbles, 6 white marbles, 3 blue marbles, and 7 green marbles. Once a marble is selected, **it is replaced**. Find the probability of each outcome. Write your answers as fractions.

11) P(a blue marble, then a green marble)

13) P(a red marble three times in a row)

12) P(a blue marble, then a red marble)

14) P(white, then blue, then white)

You have the following coins in your pocket: 5 quarters, 6 dimes, 2 nickels, and 12 pennies. Once a coin is selected, **it is replaced**. Find the probability of each outcome. Write your answers as fractions.

15) P(two quarters in a row)

17) P(a dime, then a nickel, then a penny)

16) P(a penny, then a quarter)

18) P(two dimes, then a quarter)

There are 45 men on the roster of the football team, 3 are quarterbacks, 10 are offensive lineman, 6 are defensive lineman, 4 are running backs, 6 are linebackers, 8 are defensive backs, 1 is a kicker and the rest are receivers. Find the probability of each outcome. Write your answers as fractions.

19) P(quarterback, and offensive lineman)

20) P(kicker and two receivers)

20) P(three running backs, two defensive lineman) 21) P(three defensive backs)

Review

22. Explain how to add two fractions together. For example, what steps would I need to take if I was adding these two fractions together without a calculator. $\frac{4}{5} + \frac{6}{7}$

Add/Subtract the following fractions:

23. $1\frac{2}{3} + \frac{1}{6} =$

24. $4\frac{3}{8} - \frac{3}{4} =$

25. $\frac{8}{11} + \frac{4}{5} =$

26. $\frac{7}{9} - \frac{10}{27} =$