

Name: _____
Per # _____
Math 7

March 10, 2020

Dependent Events Worksheet

1. Aaron has a collection of 9 DVD's. There are 3 comedies, 2 action, 2 mystery, 1 horror, and 1 science fiction. Aaron picks a DVD to watch and without replacing the first he chooses a second DVD. Find the probability that Aaron picked:

a) P(a comedy, then mystery) _____ d) P(comedy or action, then horror) _____

b) P(action or horror, then sci-fi) _____ e) P(mystery, then musical) _____

c) P(not comedy, then comedy) _____

2. A piggy bank contains 5 quarters, 3 dimes, 4 nickels, and 1 penny. A coin is chosen, then not replaced. Find the probability of the following:

a) P(a quarter, then a nickel) _____ d) P(a dime, then a quarter) _____

b) P(a dime or a penny, then a quarter) _____

c) P(a nickel, then not a nickel) _____ e) P(a quarter, then a quarter) _____

3. A jar contains 11 marbles: 4 blue, 3 green, 2 yellow, 1 white, and 1 black. Three marbles are drawn at random without replacement. Find the probability of the following:

a) P(blue, then green, then yellow) _____

b) P(green, then yellow or white, then black) _____

c) P(no green) _____ Hint: (not green, then not green, then not green)

d) P(all blue) _____