## Homework 9-3 Probability of Multiple Events "With" or "Without" Replacement

Unit 9

**Review:** 

Solve each inequality.

1. 
$$x+2>7$$

3. 
$$10 > n-2$$

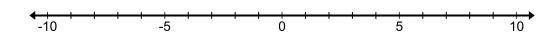
5. 
$$\frac{-x}{3} > 6$$

2. 
$$m-13 \le 7$$

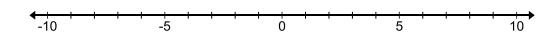
4. 
$$-36 \ge -4y$$

Graph each inequality and name 3 possible solutions for x.

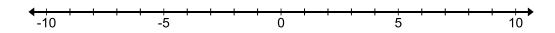




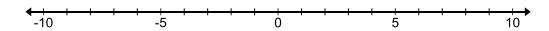
7. 
$$x \ge -7$$



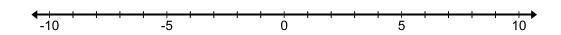
8. 
$$x > 5$$



9. x < 1



10. 
$$x \ge -10$$



**Doug flipped a penny the given number of times. What is the probability of the following?** (Give the answer as a simplified fraction.)

The Save Mart's movie area has 6 actions, 4 comedies, 1 documentary. Two customers each choose a movie at random. Assuming the first customer buys a movie, what is the probability **that the following situation occurs?** (*Give answer as a reduced fraction.*) **15.** Both choose action. **16.** Both choose comedy. **17.** The 1<sup>st</sup> customer chooses a documentary, the 2<sup>nd</sup> chooses a comedy. **18.** Both choose a documentary. The first customer randomly chooses a movie, but then puts it back. Then the second customer randomly chooses a movie. What is the probability that the customers choose the following? (Give the answer as a simplified fraction.) 19. Both choose action. **21.** Both choose the documentary. **20.** The 1<sup>st</sup> chooses the documentary, 2<sup>nd</sup> **22.** Both choose a comedy. chooses action. We are choosing blocks from a bag. There are 6 red, 4 green, 2 blue, 2 white, and 1 black. You choose the first, look at the color, and then put it back. You then choose a second block. What is **the probability that you choose the following?** (Give the answer as a simplified fraction.) **23.** P(blue, white) **25.** P(red, blue) **24.** P(green, black) **26.** P(white, green) If you keep the 1st block, and then choose a 2nd block, what is the probability that you choose the **following?** (Give the answer as a simplified fraction.) **27.** P(blue, white) **29.** P(red, black)

**30.** P(black, black)

28. P(black, green)