**Int 1 Ch 9 Review** SCORE \_\_\_\_\_\_\_\_\_\_

**Write the letter for the correct answer in the blank at the right of each question.**

**For Exercises 1-3, use the spinner at the right. What is each probability written as a fraction in simplest form?**

 **1.** *P*(C)



 **2.** *P* (vowel)

 **3.** *P* (*not* D)

**For Exercises 4-6, what is the total number of outcomes in each sample space?**

 **4.** picking a month of the year and tossing a coin

 **5.** rolling a number cube and tossing a nickel

 **6.** choosing a setting on a washing machine from regular, delicate, or extra dirty; hot, warm, or cold water; regular rinse or extra rinse

 **7.** What is the total number of outcomes for choosing a number from 1 to 10 and a day of the week? Use the Fundamental Counting Principle.

 **8.** A store is handing out coupons worth 10%, 15%, 20%, or 25% off. Each coupon is equally likely to be handed out. Which of the following models could be used to simulate this situation?

 **F.** flipping a coin four times

 **G.** spinning a spinner with four equal sections

 **H.** rolling a number cube labeled one through six one time

 **I.** rolling a number cube labeled one through six four times

**1.**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**5.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**6.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**7.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**8.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Int 1 Ch 9 Review** *(continued)* SCORE \_\_\_\_\_\_\_\_\_

**For Exercises 9 and 10, Bailey tossed a coin 10 times. The results were 7 heads and 3 tails.**

 **9.** What is the experimental probability of tossing tails?

 **10.** What is the best comparison between the theoretical and experimental probability of tossing heads?

 **F.** The theoretical probability is greater than the experimental probability.

 **G.** The theoretical probability is less than the experimental probability.

 **H.** The theoretical probability is equal to the experimental probability.

 **I.** The theoretical probability is not related to the experimental probability.

 **11.** A bag contains 4 red marbles and 2 white marbles. A marble is selected, kept out of the bag, and then another marble is selected. What is
*P*(red, then white)?

 **A.** $\frac{4}{25}$ **B.** $\frac{2}{9}$ **C.** $\frac{4}{15}$ **D.** $\frac{1}{3}$

**Find each value.**

 **12.** *P*(8, 3)

 **F.** 6 **G.** 24 **H.** 336 **I.** 512

 **13.** *P*(10, 4)

 **A.** 14 **B.** 40 **C.** 5,040 **D.** 10,000

 **14.** *P*(12, 3)

 **F.** 15 **G.** 36 **H.** 360 **I.** 1,320

**A number cube labeled one though six is rolled and a letter is selected from the word MUSIC. Find each probability.**

 **15.** *P*(2 and S)

 **A.** $\frac{1}{5}$ **B.** $\frac{1}{6}$ **C.** $\frac{1}{11}$ **D.** $\frac{1}{30}$

 **16.** *P*(6 and consonant)

 **F.** $\frac{1}{10}$ **G.** $\frac{1}{6}$ **H.** $\frac{3}{5}$ **I.** $\frac{1}{30}$

 **17.** A jar contains 5 blue marbles, 6 yellow marbles, and 4 green marbles. What is the probability of randomly choosing a yellow marble, not replacing it, and then choosing a blue marble?

 **A.** $\frac{2}{5}$ **B.** $\frac{5}{14}$ **C.** $\frac{1}{7}$ **D.** $\frac{2}{7}$

**9.\_\_\_\_\_\_\_\_\_\_\_\_\_**

**10. \_\_\_\_\_\_\_\_\_\_\_\_\_**

**11. \_\_\_\_\_\_\_\_\_\_\_\_\_**

**12. \_\_\_\_\_\_\_\_\_\_\_\_\_**

**13. \_\_\_\_\_\_\_\_\_\_\_\_\_**

**14. \_\_\_\_\_\_\_\_\_\_\_\_\_**

**15. \_\_\_\_\_\_\_\_\_\_\_\_\_**

**16. \_\_\_\_\_\_\_\_\_\_\_\_\_**

**17. \_\_\_\_\_\_\_\_\_\_\_\_\_**