TEST NAME: **Compound Probability CW #3**
TEST ID: **3040538**
GRADE: **07 - Seventh Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **School Assessment**
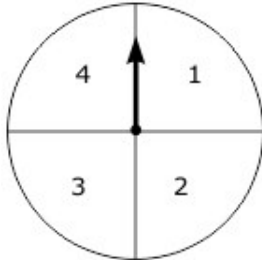
Student: _____

Class: _____

Date: _____

1. This spinner will be spun twice.


What is the probability of spinning an odd number both times?

A. $\frac{1}{8}$

B. $\frac{1}{4}$

C. $\frac{1}{2}$

D. $\frac{3}{4}$

2. Rachel will toss 2 coins at the same time. What is the probability that both coins will land on heads?

A. $\frac{2}{3}$

B. $\frac{1}{2}$

C. $\frac{1}{3}$

D. $\frac{1}{4}$

3. Laura will roll a number cube, labeled 1 through 6, and flip a coin. What is the probability the number cube will land on 4 and the coin will land on tails?

A. $\dfrac{2}{3}$

B. $\dfrac{1}{2}$

C. $\dfrac{1}{6}$

D. $\dfrac{1}{12}$

4. Jeremy will toss a coin 3 times. What is the probability Jeremy's coin will land on heads for each toss?

A. $\dfrac{7}{8}$

B. $\dfrac{5}{8}$

C. $\dfrac{1}{2}$

D. $\dfrac{1}{8}$

5. Lindsey rolled a six-sided number cube, labeled 1 through 6, twice. What is the probability that Lindsey rolled a number greater than 2 on the first roll, and an even number on the second roll?

A. $\dfrac{1}{12}$

B. $\dfrac{1}{9}$

C. $\dfrac{1}{6}$

D. $\dfrac{1}{3}$

6. The diagram below shows a spinner with numbers 1, 2, 3, and 4 and a fair cube with letters U, V, W, X, Y, and Z. Scott will spin the spinner and roll the cube at the same time.
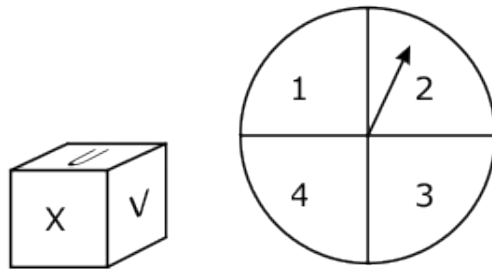
What is the probability the cube will land on the letter X and the spinner will land on a number greater than 1?

A. $\frac{1}{5}$

B. $\frac{1}{10}$

C. $\frac{1}{8}$

D. $\frac{2}{5}$

7. Toby has 3 white shirts, 1 yellow shirt, and 2 blue shirts. He also has 2 pink ties, 1 blue tie, and 2 green ties. If Toby randomly chooses a shirt and a tie, what is the probability he will choose a white shirt and blue tie?

A. $\frac{1}{10}$

B. $\frac{1}{5}$

C. $\frac{2}{7}$

D. $\frac{7}{10}$

8. Bruce will spin the spinner below 2 times.
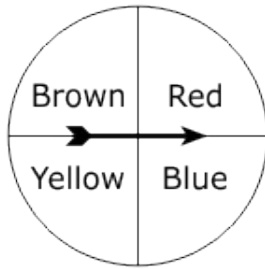
What is the probability Bruce's second spin will land on the same color that the first spin landed on?

A. $\frac{1}{2}$

B. $\frac{1}{4}$

C. $\frac{1}{8}$

D. $\frac{1}{16}$

9. Jenny is getting dressed for school.

- She has 2 pairs of black pants, 1 pair of brown pants, and 2 pairs of blue pants in her closet.
- She also has 2 pink T-shirts and 3 blue T-shirts in her closet.
- Without looking, Jenny pulls out one pair of pants and one T-shirt from her closet.

What is the probability that Jenny pulls out a pair of black pants and a blue T-shirt?

A. $\frac{2}{3}$

B. $\frac{5}{10}$
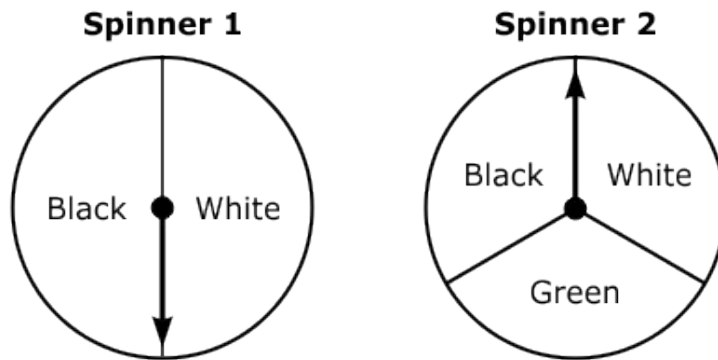
C. $\frac{6}{25}$

D. $\frac{5}{25}$

10. The diagram below shows two cards and a spinner.
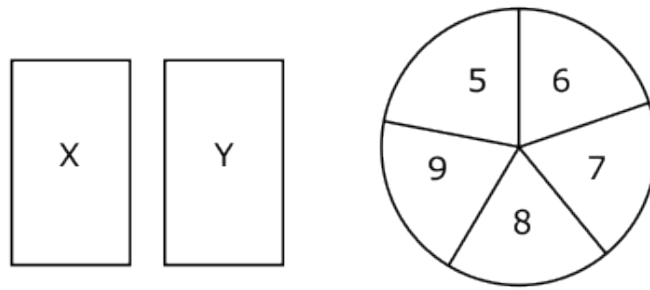
Trevor will randomly select one card and spin the spinner one time. What is the probability that Trevor will select the X card and the spinner will land on a number greater than 6?

A. $\frac{1}{10}$

B. $\frac{3}{10}$

C. $\frac{1}{3}$

D. $\frac{1}{2}$

11. Henry will spin each of the spinners below one time.

Spinner 1

Spinner 2

What is the probability that one spinner will land on black and the other spinner will land on white?

A. $\frac{1}{6}$

B. $\frac{1}{5}$

C. $\frac{1}{3}$

D. $\frac{1}{2}$

12. Lola has 4 cards labeled 12, 13, 14, and 15. She randomly selects a card and replaces it. She randomly selects a card again. What is the probability Lola selected the card labeled 12 both times?

A. $\dfrac{1}{2}$

B. $\dfrac{1}{4}$

C. $\dfrac{1}{8}$

D. $\dfrac{1}{16}$

13. Brian will roll a number cube, labeled 1 to 6, twice. What is the probability Brian will roll a 6 both times?
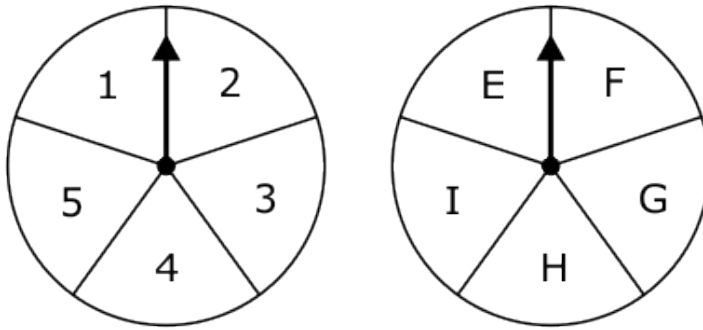
A. $\dfrac{1}{36}$

B. $\dfrac{1}{18}$

C. $\dfrac{1}{6}$

D. $\dfrac{1}{4}$

14. Betty will spin each spinner below once.

What is the probability the first spinner will land on an odd number and the second spinner will land on a vowel?

A. $\frac{4}{25}$

B. $\frac{1}{6}$

C. $\frac{1}{5}$

D. $\frac{6}{25}$

15. Marie has two boxes of colored markers. Each box contains 3 markers. In one box, there are red, blue, and yellow markers. The other box has purple, pink, and orange markers. If Marie takes a marker from each box, what is the probability that Marie chooses a blue marker and an orange marker?

A. $\frac{1}{9}$

B. $\frac{1}{6}$

C. $\frac{1}{3}$

D. $\frac{2}{3}$

16. The diagram below shows two spinners.
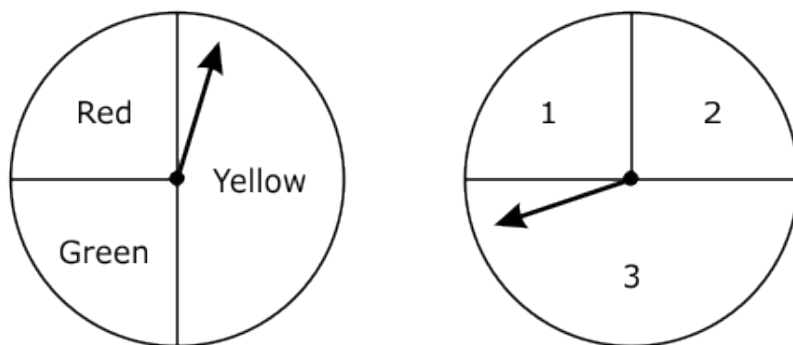
What is the probability of spinning yellow on the first spinner and 3 on the second spinner?

A. $\frac{1}{2}$

B. $\frac{1}{3}$

C. $\frac{1}{4}$

D. $\frac{1}{9}$