

**TEST NAME: Tree Diagram CW #2**  
**TEST ID: 3058794**  
**GRADE: 07 - Seventh Grade**  
**SUBJECT: Mathematics**  
**TEST CATEGORY: School Assessment**

04/19/19, Tree Diagram CW #2

Student: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

1. A fair coin will be tossed four times. The possible outcomes are shown below.

HHHH	THHH
HHHT	THHT
HHTH	THTH
HHTT	THTT
HTHH	TTHH
HTHT	TTHT
HTTH	TTTH
HTTT	TTTT

What is the probability that the outcome will be at least two heads (H)?

- A.  $\frac{3}{8}$   
B.  $\frac{7}{16}$   
C.  $\frac{5}{8}$   
D.  $\frac{11}{16}$
2. Robert will toss 3 coins at the same time. What is the probability that 2 of the coins will land on heads and the other coin will land on tails?

- A.  $\frac{1}{2}$   
B.  $\frac{3}{8}$   
C.  $\frac{1}{8}$

3. Two coins are flipped. What is the probability of both coins landing on heads?

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

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

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

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

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

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

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

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

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

6. Wanda will flip a coin four times. What is the probability that Wanda's flips will all land on tails?

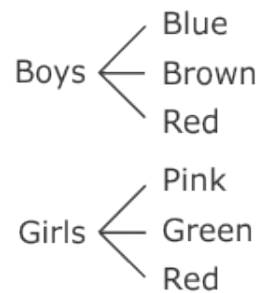
A.  $\frac{1}{2}$

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

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

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

7. A coach opens a box of boys' and girls' basketball uniforms. She makes a tree diagram to show the different colors of uniforms in the box.



Based on this diagram, what is the probability of selecting a girls' red uniform?

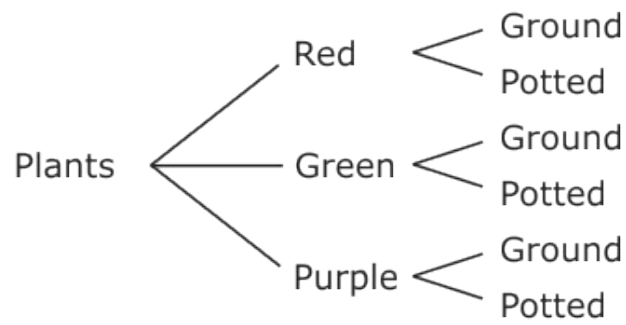
A.  $\frac{1}{2}$

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

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

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

8. What is the probability of randomly selecting a purple plant out of all the plant choices below?



- A.  $\frac{1}{6}$
- B.  $\frac{1}{4}$
- C.  $\frac{1}{3}$
- D.  $\frac{2}{3}$
9. Three coins will be tossed in the air at the same time. What is the probability that all three coins will land showing heads?

- A.  $\frac{1}{9}$
- B.  $\frac{1}{8}$
- C.  $\frac{1}{6}$
- D.  $\frac{1}{2}$

10. Jacob is buying ice cream.

- He can choose one flavor of ice cream: chocolate, strawberry, vanilla, or rocky road.
- He can put his ice cream in a sugar cone, waffle cone, or a cup.

What is the probability Jacob will choose chocolate ice cream in a waffle cone?

- A. 1 out of 4
- B. 1 out of 12
- C. 2 out of 7
- D. 2 out of 12

11. David will toss one coin three times. What is the probability that the coin will land on heads only one time?

- A.  $\frac{1}{8}$
- B.  $\frac{1}{3}$
- C.  $\frac{3}{8}$
- D.  $\frac{1}{2}$