

Name: _____

Date: _____

Compound Probability

Grades 6 – 8 • 20 questions • Show your work

1. A fair die is rolled twice. What is the probability of rolling a **1 both times**?

 2. A bag has 4 red and 2 blue marbles. A marble is drawn, replaced, and a second is drawn. What is the probability that **both are red**? _____
 3. A coin is flipped and a fair die is rolled. What is the probability of getting **heads and a 2**? _____
 4. A bag has 3 red and 1 blue marbles. A marble is drawn, replaced, and a second is drawn. What is the probability that **both are red**? _____
 5. A fair die is rolled twice. What is the probability of rolling a **3 both times**?

 6. A bag has 2 red and 1 blue marbles. A marble is drawn, replaced, and a second is drawn. What is the probability that **both are red**? _____
 7. A coin is flipped and a fair die is rolled. What is the probability of getting **heads and a 3**? _____
 8. A fair die is rolled twice. What is the probability of rolling a **6 both times**?

 9. A bag has 2 red and 2 blue marbles. A marble is drawn, replaced, and a second is drawn. What is the probability that **both are red**? _____
-

10. A bag has 5 red and 2 blue marbles. A marble is drawn, replaced, and a second is drawn. What is the probability that **both are red**? _____
11. A bag has 5 red and 1 blue marbles. A marble is drawn, replaced, and a second is drawn. What is the probability that **both are red**? _____
12. A fair die is rolled twice. What is the probability of rolling a **2 both times**? _____
13. A fair die is rolled twice. What is the probability of rolling a **4 both times**? _____
14. A bag has 1 red and 3 blue marbles. A marble is drawn, replaced, and a second is drawn. What is the probability that **both are red**? _____
15. A bag has 4 red and 3 blue marbles. A marble is drawn, replaced, and a second is drawn. What is the probability that **both are red**? _____
16. A coin is flipped and a fair die is rolled. What is the probability of getting **heads and a 1**? _____
17. A bag has 2 red and 3 blue marbles. A marble is drawn, replaced, and a second is drawn. What is the probability that **both are red**? _____
18. A bag has 4 red and 1 blue marbles. A marble is drawn, replaced, and a second is drawn. What is the probability that **both are red**? _____
19. A bag has 4 red and 4 blue marbles. A marble is drawn, replaced, and a second is drawn. What is the probability that **both are red**? _____
20. A coin is flipped and a fair die is rolled. What is the probability of getting **heads and a 4**? _____
-

Answer Key — Compound Probability

1. $\frac{1}{36}$

2. $\frac{4}{9}$

3. $\frac{1}{12}$

4. $\frac{9}{16}$

5. $\frac{1}{36}$

6. $\frac{4}{9}$

7. $\frac{1}{12}$

8. $\frac{1}{36}$

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

10. $\frac{25}{49}$

11. $\frac{25}{36}$

12. $\frac{1}{36}$

13. $\frac{1}{36}$

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

15. $\frac{16}{49}$

16. $\frac{1}{12}$

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

18. $\frac{16}{25}$

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

20. $\frac{1}{12}$
