Task card 1 Conditional Probability & Independ...

A bag has 3 red and 6 blue marbles. One marble is drawn and put back, then a second marble is drawn. Find the probability that the first is red and the second is blue.

Task card 2 Conditional Probability & Independ...

A and B are mutually exclusive events with $P(A) = \frac{1}{4}$ and $P(B) = \frac{5}{8}$. Find P(A or B).

Task card 3 Conditional Probability & Independ...

A bag has 6 red and 5 blue marbles. One marble is drawn and put back, then a second marble is drawn. Find the probability that both marbles are blue.

Task card 4 Conditional Probability & Independ...

A bag has 6 red and 3 blue marbles. One marble is drawn and put back, then a second marble is drawn. Find the probability that the first is blue and the second is red.

Task card 5 Conditional Probability & Independ...

A and B are mutually exclusive events with $P(A) = \frac{1}{8}$ and $P(B) = \frac{1}{4}$. Find P(A or B).

Task card 6 Conditional Probability & Independ...

A bag has 4 red and 6 blue marbles. One marble is drawn and put back, then a second marble is drawn. Find the probability that the first is red and the second is blue.

Task card 7 Conditional Probability & Independ...

A bag has 6 red and 5 blue marbles. One marble is drawn and put back, then a second marble is drawn. Find the probability that both marbles are red.

Task card 8 Conditional Probability & Independ...

A and B are mutually exclusive events with $P(A) = \frac{1}{6}$ and $P(B) = \frac{1}{3}$. Find P(A or B).

Task card 9 Conditional Probability & Independ...

A bag has 3 red and 5 blue marbles. One marble is drawn and put back, then a second marble is drawn. Find the probability that both marbles are blue.

Task card 10 Conditional Probability & Independ...

A bag has 3 red and 3 blue marbles. One marble is drawn and put back, then a second marble is drawn. Find the probability that both marbles are red.

Task card 11 Conditional Probability & Independ...

A and B are mutually exclusive events with $P(A) = \frac{1}{2}$ and $P(B) = \frac{3}{8}$. Find P(A or B).

Task card 12 Conditional Probability & Independ...

A bag has 2 red and 3 blue marbles. One marble is drawn and put back, then a second marble is drawn. Find the probability that both marbles are blue.

Task card 13 Conditional Probability & Independ...

A bag has 6 red, 7 blue and 7 green marbles. Two marbles are drawn one after the other without replacement. Find the probability that both marbles are red.

Task card 14 Conditional Probability & Independ...

A and B are mutually exclusive events with $P(A) = \frac{1}{4}$ and $P(B) = \frac{1}{6}$. Find P(A or B).

Task card 15 Conditional Probability & Independ...

$P(A) = \frac{1}{5}$, $P(B) = \frac{4}{5}$ and $P(A \text{ and } B) = \frac{1}{15}$. Find P(A or B).

Task card 16 Conditional Probability & Independ...

A bag has 7 red, 4 blue and 5 green marbles. One marble is drawn and put back, then a second marble is drawn. Find the probability that the first is red and the second is blue.

Task card 17 Conditional Probability & Independ...

A bag has 5 red, 5 blue and 5 green marbles. Two marbles are drawn one after the other without replacement. Find the probability that the first is blue and the second is green.

Task card 18 Conditional Probability & Independ...

A bag has 5 red and 6 blue marbles. One marble is drawn and put back, then a second marble is drawn. Find the probability that both marbles are red.

Task card 19 Conditional Probability & Independ...

A and B are mutually exclusive events with $P(A) = \frac{1}{2}$ and $P(B) = \frac{3}{10}$. Find P(A or B).

Task card 20 Conditional Probability & Independ...

A bag has 4 red and 6 blue marbles. One marble is drawn and put back, then a second marble is drawn. Find the probability that both marbles are red.

Task card 21 Conditional Probability & Independ...

A bag has 3 red and 2 blue marbles. One marble is drawn and put back, then a second marble is drawn. Find the probability that both marbles are blue.

Task card 22 Conditional Probability & Independ...

A and B are mutually exclusive events with $P(A) = \frac{5}{8}$ and $P(B) = \frac{1}{8}$. Find P(A or B).

Task card 23 Conditional Probability & Independ...

A bag has 4 red and 4 blue marbles. One marble is drawn and put back, then a second marble is drawn. Find the probability that the first is blue and the second is red.

Task card 24 Conditional Probability & Independ...

A bag has 6 red and 6 blue marbles. One marble is drawn and put back, then a second marble is drawn. Find the probability that the first is red and the second is blue.

Conditional Probability & Independent Events Task Cards

Recording sheet · Grade 11 · Write each probability as a fraction in simplest form, like 3/8. P(A | B) means the probability of A given that B has happened.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Conditional Probability & Independent Events Task Cards: Answer Key

Grade 11 · Easy

The answers online

1. $\frac{2}{9}$	**2.** $\frac{7}{8}$	**3.** $\frac{25}{121}$
4. $\frac{2}{9}$	**5.** $\frac{3}{8}$	**6.** $\frac{6}{25}$
7. $\frac{36}{121}$	**8.** $\frac{1}{2}$	**9.** $\frac{25}{64}$
10. $\frac{1}{4}$	**11.** $\frac{7}{8}$	**12.** $\frac{9}{25}$
13. $\frac{3}{38}$	**14.** $\frac{5}{12}$	**15.** $\frac{14}{15}$
16. $\frac{7}{64}$	**17.** $\frac{5}{42}$	**18.** $\frac{25}{121}$
19. $\frac{4}{5}$	**20.** $\frac{4}{25}$	**21.** $\frac{4}{25}$
22. $\frac{3}{4}$	**23.** $\frac{1}{4}$	**24.** $\frac{1}{4}$