Task card 1 Conditional Probability & Independ...

A bag has 6 red, 5 blue and 2 green marbles. Two marbles are drawn one after the other without replacement. Find the probability that both marbles are red.

Task card 2 Conditional Probability & Independ...

A and B are mutually exclusive events with $P(A) = \frac{11}{15}$ and $P(B) = \frac{1}{15}$. Find P(A or B).

Task card 3 Conditional Probability & Independ...

$P(A) = \frac{7}{10}$, $P(B) = \frac{3}{10}$ and P(A and B) $= \frac{1}{10}$. Find P(A or B).

Task card 4 Conditional Probability & Independ...

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

Task card 5 Conditional Probability & Independ...

A bag has 7 red, 7 blue and 3 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 6 Conditional Probability & Independ...

A bag has 4 red, 6 blue and 6 green marbles. Two marbles are drawn one after the other without replacement. Find the probability that the first is green and the second is blue.

Task card 7 Conditional Probability & Independ...

$P(A \text{ and } B) = \frac{1}{9}$ and $P(B) = \frac{1}{3}$.

Find $P(A \mid B)$.

Task card 8 Conditional Probability & Independ...

$P(A) = \frac{1}{2}$, $P(B) = \frac{11}{16}$ and $P(A \text{ and } B) = \frac{5}{16}$. Find $P(A \text{ or } B)$.

Task card 9 Conditional Probability & Independ...

One card is drawn from a standard deck of 52 cards. Find the probability that it is a 7 or a diamond.

Task card 10 Conditional Probability & Independ...

A bag has 2 red, 5 blue and 2 green marbles. Two marbles are drawn one after the other without replacement. Find the probability that both marbles are green.

Task card 11 Conditional Probability & Independ...

A bag has 5 red, 3 blue and 8 green marbles. Two marbles are drawn one after the other without replacement. Find the probability that the first is red and the second is green.

Task card 12 Conditional Probability & Independ...

$P(A \text{ and } B) = \frac{2}{25}$ and $P(B) = \frac{2}{5}$.

Find $P(A \mid B)$.

Task card 13 Conditional Probability & Independ...

$P(A) = \frac{1}{3}$, $P(B) = \frac{2}{3}$ and $P(A \text{ and } B) = \frac{1}{12}$. Find $P(A \text{ or } B)$.

Task card 14 Conditional Probability & Independ...

One card is drawn from a standard deck of 52 cards. Find the probability that it is a 2 or a 3.

Task card 15 Conditional Probability & Independ...

A bag has 2 red, 2 blue and 6 green marbles. Two marbles are drawn one after the other without replacement. Find the probability that the first is green and the second is red.

Task card 16 Conditional Probability & Independ...

A bag has 6 red, 4 blue and 6 green marbles. Two marbles are drawn one after the other without replacement. Find the probability that the first is red and the second is green.

Task card 17 Conditional Probability & Independ...

A and B are mutually exclusive events with $P(A) = \frac{1}{5}$ and $P(B) = \frac{2}{5}$. Find $P(A \text{ or } B)$.

Task card 18 Conditional Probability & Independ...

$P(A) = \frac{1}{2}$, $P(B) = \frac{1}{4}$ and $P(A \text{ and } B) = \frac{1}{8}$. Find $P(A \text{ or } B)$.

Task card 19 Conditional Probability & Independ...

A bag has 7 red, 3 blue and 2 green marbles. One marble is drawn and put back, then a second marble is drawn. Find the probability that both marbles are green.

Task card 20 Conditional Probability & Independ...

A bag has 3 red, 3 blue and 7 green marbles. Two marbles are drawn one after the other without replacement. Find the probability that the first is red and the second is blue.

Task card 21 Conditional Probability & Independ...

A bag has 2 red, 5 blue and 3 green marbles. Two marbles are drawn one after the other without replacement. Find the probability that the first is red and the second is green.

Task card 22 Conditional Probability & Independ...

$P(A \text{ and } B) = \frac{5}{12}$ and $P(B) = \frac{5}{6}$. Find $P(A \mid B)$.

Task card 23 Conditional Probability & Independ...

$P(A) = \frac{7}{20}$, $P(B) = \frac{3}{10}$ and $P(A \text{ and } B) = \frac{1}{20}$. Find $P(A \text{ or } B)$.

Task card 24 Conditional Probability & Independ...

One card is drawn from a standard deck of 52 cards. Find the probability that it is a face card (jack, queen or king) or a club.

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 · Medium

The answers online

1. $\frac{5}{26}$	**2.** $\frac{4}{5}$	**3.** $\frac{9}{10}$
4. $\frac{6}{49}$	**5.** $\frac{21}{272}$	**6.** $\frac{3}{20}$
7. $\frac{1}{3}$	**8.** $\frac{7}{8}$	**9.** $\frac{4}{13}$
10. $\frac{1}{36}$	**11.** $\frac{1}{6}$	**12.** $\frac{1}{5}$
13. $\frac{11}{12}$	**14.** $\frac{2}{13}$	**15.** $\frac{2}{15}$
16. $\frac{3}{20}$	**17.** $\frac{3}{5}$	**18.** $\frac{5}{8}$
19. $\frac{1}{36}$	**20.** $\frac{3}{52}$	**21.** $\frac{1}{15}$
22. $\frac{1}{2}$	**23.** $\frac{3}{5}$	**24.** $\frac{11}{26}$