Task card 1 Conditional Probability & Independ...

A bag has 8 red, 3 blue and 2 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 2 Conditional Probability & Independ...

$P(A \text{ and } B) = \frac{1}{18}$ and $P(B) = \frac{1}{6}$. Find $P(A \mid B)$.

Task card 3 Conditional Probability & Independ...

$P(A) = \frac{1}{2}$, $P(B) = \frac{3}{5}$ and $P(A \text{ and } B) = \frac{3}{10}$. Are A and B independent? Write yes or no.

Task card 4 Conditional Probability & Independ...

$P(A) = \frac{7}{8}$, $P(B) = \frac{5}{8}$ and $P(A \text{ and } B) = \frac{13}{24}$. Find $P(A \text{ or } B)$.

Task card 5 Conditional Probability & Independ...

$P(A) = \frac{2}{3}$ and $P(B \mid A) = \frac{4}{5}$. Find $P(A \text{ and } B)$.

Task card 6 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.

Task card 7 Conditional Probability & Independ...

$P(A) = \frac{2}{3}$, $P(B) = \frac{1}{2}$ and $P(A \text{ and } B) = \frac{1}{6}$. Are A and B independent? Write yes or no.

Task card 8 Conditional Probability & Independ...

A bag has 8 red, 3 blue and 4 green marbles. Two marbles are drawn one after the other without replacement. Find the probability that both marbles are blue.

Task card 9 Conditional Probability & Independ...

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

Task card 10 Conditional Probability & Independ...

$P(A) = \frac{1}{3}$, $P(B) = \frac{1}{3}$ and $P(A \text{ and } B) = \frac{2}{9}$. Are A and B independent? Write yes or no.

Task card 11 Conditional Probability & Independ...

$P(A) = \frac{1}{3}$, $P(B) = \frac{1}{3}$ and $P(A \text{ and } B) = \frac{4}{15}$. Find $P(A \text{ or } B)$.

Task card 12 Conditional Probability & Independ...

$P(A) = \frac{2}{5}$ and $P(B \mid A) = \frac{2}{3}$. Find $P(A \text{ and } B)$.

Task card 13 Conditional Probability & Independ...

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

Task card 14 Conditional Probability & Independ...

$P(A) = \frac{5}{6}$, $P(B) = \frac{1}{6}$ and $P(A \text{ and } B) = \frac{5}{36}$. Are A and B independent? Write yes or no.

Task card 15 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 blue and the second is red.

Task card 16 Conditional Probability & Independ...

$P(A \text{ and } B) = \frac{1}{5}$ and $P(B) = \frac{1}{3}$.

Find $P(A \mid B)$.

Task card 17 Conditional Probability & Independ...

$P(A) = \frac{2}{3}$, $P(B) = \frac{2}{5}$ and $P(A \text{ and } B) = \frac{4}{15}$. Are A and B independent? Write yes or no.

Task card 18 Conditional Probability & Independ...

$P(A) = \frac{1}{4}$, $P(B) = \frac{1}{2}$ and $P(A \text{ and } B) = \frac{1}{12}$. Find $P(A \text{ or } B)$.

Task card 19 Conditional Probability & Independ...

$P(A) = \frac{3}{5}$ and $P(B \mid A) = \frac{1}{3}$. Find P(A and B).

Task card 20 Conditional Probability & Independ...

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

Task card 21 Conditional Probability & Independ...

$P(A) = \frac{1}{4}$, $P(B) = \frac{2}{5}$ and P(A and B) = $\frac{1}{20}$. Are A and B independent? Write yes or no.

Task card 22 Conditional Probability & Independ...

A bag has 4 red, 7 blue and 5 green marbles. Two marbles are drawn one after the other without replacement. Find the probability that both marbles are green.

Task card 23 Conditional Probability & Independ...

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

Task card 24 Conditional Probability & Independ...

$P(A) = \frac{5}{6}$, $P(B) = \frac{4}{5}$ and P(A and B) = $\frac{7}{10}$. Are A and B independent? Write yes or no.

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 · Hard

The answers online

1. $\frac{1}{26}$	**2.** $\frac{1}{3}$	**3.** yes
4. $\frac{23}{24}$	**5.** $\frac{8}{15}$	**6.** $\frac{11}{26}$
7. no	**8.** $\frac{1}{35}$	**9.** $\frac{1}{6}$
10. no	**11.** $\frac{2}{5}$	**12.** $\frac{4}{15}$
13. $\frac{4}{13}$	**14.** yes	**15.** $\frac{1}{10}$
16. $\frac{3}{5}$	**17.** yes	**18.** $\frac{2}{3}$
19. $\frac{1}{5}$	**20.** $\frac{7}{13}$	**21.** no
22. $\frac{1}{12}$	**23.** $\frac{1}{2}$	**24.** no