Conditional Probability & Independent Events · 1

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.

Conditional Probability & Independent Events · 2

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

Conditional Probability & Independent Events · 3

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.

Conditional Probability & Independent Events · 4

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.

Conditional Probability & Independent Events · 5

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

Conditional Probability & Independent Events · 6

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.

Conditional Probability & Independent Events · 7

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.

Conditional Probability & Independent Events · 8

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

Conditional Probability & Independent Events · 2

ANSWER

$$\frac{7}{8}$$

Conditional Probability & Independent Events · 1

ANSWER

$$\frac{2}{9}$$

Conditional Probability & Independent Events · 4

ANSWER

$$\frac{2}{9}$$

Conditional Probability & Independent Events · 3

ANSWER

$$\frac{25}{121}$$

Conditional Probability & Independent Events · 6

ANSWER

$$\frac{6}{25}$$

Conditional Probability & Independent Events · 5

ANSWER

$$\frac{3}{8}$$

Conditional Probability & Independent Events · 8

ANSWER

$$\frac{1}{2}$$

Conditional Probability & Independent Events · 7

ANSWER

$$\frac{36}{121}$$

Conditional Probability & Independent Events · 9

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.

Conditional Probability & Independent Events · 10

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.

Conditional Probability & Independent Events · 11

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

Conditional Probability & Independent Events · 12

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.

Conditional Probability & Independent Events · 13

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.

Conditional Probability & Independent Events · 14

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

Conditional Probability & Independent Events · 15

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

Conditional Probability & Independent Events · 16

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.

Conditional Probability & Independent Events · 10

ANSWER

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

Conditional Probability & Independent Events · 9

ANSWER

$$\frac{25}{64}$$

Conditional Probability & Independent Events · 12

ANSWER

$$\frac{9}{25}$$

Conditional Probability & Independent Events · 11

ANSWER

$$\frac{7}{8}$$

Conditional Probability & Independent Events · 14

ANSWER

$$\frac{5}{12}$$

Conditional Probability & Independent Events · 13

ANSWER

$$\frac{3}{38}$$

Conditional Probability & Independent Events · 16

ANSWER

$$\frac{7}{64}$$

Conditional Probability & Independent Events · 15

ANSWER

$$\frac{14}{15}$$

Conditional Probability & Independent Events · 17

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.

Conditional Probability & Independent Events · 18

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.

Conditional Probability & Independent Events · 19

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

Conditional Probability & Independent Events · 20

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.

Conditional Probability & Independent Events · 21

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.

Conditional Probability & Independent Events · 22

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

Conditional Probability & Independent Events · 23

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.

Conditional Probability & Independent Events · 24

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 · 18

ANSWER

$$\frac{25}{121}$$

Conditional Probability & Independent Events · 17

ANSWER

$$\frac{5}{42}$$

Conditional Probability & Independent Events · 20

ANSWER

$$\frac{4}{25}$$

Conditional Probability & Independent Events · 19

ANSWER

$$\frac{4}{5}$$

Conditional Probability & Independent Events · 22

ANSWER

$$\frac{3}{4}$$

Conditional Probability & Independent Events · 21

ANSWER

$$\frac{4}{25}$$

Conditional Probability & Independent Events · 24

ANSWER

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

Conditional Probability & Independent Events · 23

ANSWER

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