

Student Name: _____

Score: _____

Independent and Dependent

A box contains 2 red marbles, 3 white marbles, 4 green marbles and 1 blue marble. Two marbles are drawn at random without replacement.

Problems

Work Space

Find the probability of selecting a green marble on the second draw if the first marble is blue.

Answer: _____

What is the probability of selecting a white marble or a red marble on the first draw?

Answer: _____

What is the probability of selecting two consecutive green marbles?

Answer: _____

Find the probability of selecting either a white or a green marble on the first draw and either a green or a blue marble on the second draw.

Answer: _____

What is the probability of selecting a white marble on the first draw and a white or a blue marble on the second draw?

Answer: _____

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Student Name: _____

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Answer key

Independent and Dependent

Find the probability of selecting a green marble on the second draw if the first marble is blue.

Answer: $\frac{4}{9}$

What is the probability of picking a white marble or a red marble on the first draw?

Answer: $\frac{3}{10} * \frac{2}{9}$

What is the probability of picking two consecutive marbles?

Answer: $\frac{2}{10} * \frac{1}{9}$

Find the probability of picking either a white or a green or a blue marble on the second draw.

Answer: $\frac{5}{10} * \frac{5}{9}$

What is the probability of picking a white marble on the first draw and a white or a blue marble on the second draw?

Answer: $\frac{3}{10} * \frac{3}{9} = \frac{1}{10}$

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