

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. Find the probability of

Problems

Work Space

Selecting a green marble on the second draw if the first marble is blue.

Answer: \_\_\_\_\_

Selecting a white marble on the first draw and red marble on the second draw.

Answer: \_\_\_\_\_

Selecting a red marble on the first draw and a green marble on the second draw.

Answer: \_\_\_\_\_

Selecting a red marble on the first draw and a green marble on the second draw.

Answer: \_\_\_\_\_

Selecting a white marble on the first draw and a white marble on the second draw.

Answer: \_\_\_\_\_

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Student Name: \_\_\_\_\_

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Answer key

Independent and Dependent

Selecting a green marble on the second draw if the first marble is blue.

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

Selecting a white marble on the first draw and red marble on the second draw.

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

Selecting a red marble on the first draw and a green marble on the second draw.

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

Selecting a red marble on the first draw and a green marble on the second draw.

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

Selecting a white marble on the first draw and a white or blue marble on the second draw.

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

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