

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

Score: \_\_\_\_\_

**Independent and Dependent**

10 cards are numbered from 1 through 10. Cards are well shuffled and the cards are drawn at random.

Problems

Work Space

Three cards are drawn without replacement. First and the second cards show 4 and 6 respectively. Find the probability of selecting an even number in a third draw.

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

If the condition 1, find the probability of selecting an odd number in a third draw.

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

If two cards are drawn without replacement, find the probability of choosing prime numbers in the first and second draw.

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

If two cards are drawn with replacement, find the probability of drawing 4 or 5 in the first draw and an even prime in the second draw.

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

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

Score: \_\_\_\_\_

Answer key

Independent and Dependent

Three cards are drawn without replacement. First and the second cards show 4 and 6 respectively. Find the probability of selecting an even number in a third draw.

Answer:  $\frac{3}{8}$

If the condition 1, find the probability of selecting an odd number in a third draw.

Answer:  $\frac{5}{8}$

If two cards are drawn without replacement, find the probability of choosing a prime number in the second draw.

Answer:  $\frac{4}{10} * \frac{3}{9}$

If two cards are drawn without replacement, find the probability of drawing a 4 or 5 in the first draw and an even prime in the second draw.

Answer:  $\frac{2}{10} * \frac{1}{9} = \frac{1}{45}$

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