

Student Name: _____ Score: _____

Independent and Dependent

There are ten cards numbered from 1 to 10 in a box. Cards are well shuffled and drawn at random.

Problems

Work Space

Three cards are drawn without replacement. If the numbers on the first and the second card show 4 and 6 respectively, find the probability of selecting an even number on the third draw.

Answer: _____

If the condition is changed to 1, find the probability of selecting an odd number on the third draw.

Answer: _____

If two cards are drawn without replacement, find the probability of choosing a prime number first and the second card being an even number.

Answer: _____

If two cards are drawn without replacement, find the probability of drawing a 4 or 6 on the first draw and any even prime number on the second draw.

Answer: _____

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Answer key

Independent and Dependent

Three cards are drawn without replacement. If the numbers on the first and the second card show 4 and 6 respectively, find the probability of selecting an even number on the third draw.

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

If the condition is changed to 1, find the probability of selecting an odd number on the third draw.

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

If two cards are drawn without replacement, find the probability of choosing a prime number first and the second card being an even number.

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

If two cards are drawn without replacement, find the probability of drawing a 4 or 6 on the first draw and any even prime number on the second draw.

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

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