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## Independent and Dependent

Two cards are drawn from a standard deck of 52 cards one after another.

> Problems Work Space

Find the probability of drawing a king card on the first draw.

Answer: $\qquad$
If the first card is king and the card is not replaced, what is the probability of selecting a king on the second draw?

Answer: $\qquad$
Find the probability of selecting a king from the first draw and a queen on the second draw without replacing the first card.

## Answer:

$\qquad$
Find the probability of selecting a Jack on the first draw and a queen on the second draw after replacing the first card.

## Answer:

Find the probability of selecting a 6 or 7 on the first draw and an 8 or 9 on the second draw without replacement.

Answer:
$\qquad$

## Score:

Answer key

## Independent and Dependent

Find the probability of drawing a king card on the first draw.

Answer: $\frac{1}{13}$
If the first card is king and the card is not replaced, what is the probability of selecting a king on the second draw?

Answer: $\frac{1}{17}$
Find the probability of selecting a king from the first draw and a queen on the second draw without replacing the first card.

Answer: $\frac{4}{52} * \frac{4}{51}=\frac{4}{663}$
Find the probability of selecting a Jack on the first draw and a queen on the second draw after replacing the first card.

Answer: $\frac{4}{52} * \frac{4}{52}=\frac{1}{169}$
Find the probability of selecting a 6 or 7 on the first draw and an 8 or 9 on the second draw without replacement.

Answer: $\frac{8}{52} * \frac{8}{51}=\frac{16}{663}$

