Student Name:	Score:
Independent and Dependent  Two cards are drawn from a standard deck of 52 cards one after another.	
Find the probability of drawing a king card on the first draw.	
Answer:	
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:	
Find the probability of selecting a king from the first draw and a queen on the second draw without replacing the first card.	
Answer: 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	

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