Independent and Dependent

Two cards are drawn from single deck of 52 cards one after the other.

Problems	Work Space
Find the probability of selecting a king from the first card. Answer: _____	
If the first card is king and the card is not replaced, what is the probability of selecting a king from the second card? Answer: _____	
Find the probability of selecting a king from the first card and a queen from the second card without replacing the first card. Answer: _____	
Find the probability of selecting a Jack from the first card and queen from the second card with replacement. Answer: _____	
Find the probability of selecting 6 or 7 in the first draw and 8 or 9 in the second draw without replacement. Answer: _____	

Student Name: _____   **Score:**

Answers

Find the probability of selecting a king from the first card. Answer: $\dfrac{1}{13}$	
If the first card is king and the card is not replaced, what is the probability of selecting a king from the second card? Answer: $\dfrac{1}{17}$	
Find the probability of selecting a king from the first card and a queen from the second card without replacing the first card. Answer: $\dfrac{4}{52} * \dfrac{4}{51} = \dfrac{4}{663}$	
Find the probability of selecting a Jack from the first card and queen from the second card with replacement. Answer: $\dfrac{4}{52} * \dfrac{4}{52} = \dfrac{1}{169}$	
Find the probability of selecting 6 or 7 in the first draw and 8 or 9 in the second draw without replacement. Answer: $\dfrac{8}{52} * \dfrac{8}{52} = \dfrac{4}{169}$	