

Student Name: _____

Score: _____

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: _____	

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Answer key

Independent and Dependent

Find the probability of selecting a king from the first card.

Answer: $\frac{1}{13}$

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: $\frac{1}{17}$

Find the probability of selecting a king from the first card and a queen from the second card without replacing the first card.

Answer: $\frac{4}{52} * \frac{4}{51} = \frac{4}{663}$

Find the probability of selecting a Jack from the first card and queen from the second card with replacement.

Answer: $\frac{4}{52} * \frac{4}{52} = \frac{1}{169}$

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

Answer: $\frac{8}{52} * \frac{8}{52} = \frac{4}{169}$