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## Probability of One Event

EXAMPLE			EXAMPLE			EXAMPLE		
If you choose a card out of a 52-card			If you choose a card out of a 52-card			If you choose a card out of a 52-card		
deck, what is the probability that you			deck, what is the probability that you			deck, what is the probability that you		
will get a Queen?			will get a Queen, given that you already			will get a Queen, given that all of the		
5			removed all of the Aces?			hearts had been removed?		
There are 4 Queens	Original	4	If you remove the	Original	4	If you remove the	Original	3
in a deck of cards, so	Fraction:	<del>52</del>	four aces, there will	Fraction:	48	hearts, that means	Fraction:	39
the probability is 4 Queens	Reduced	1	only be 48 cards left,	Reduced	1	13 less cards & 1 less	Reduced	1
52 Cards	Fraction:	<del>13</del>	SO 4 Queens 48 Cards	Fraction:	12	Queen, so $\frac{3 \text{ Queens}}{39 \text{Cards}}$ .	Fraction:	<del>13</del>
$\frac{4 \div 4}{52 \div 4} = \frac{1}{13}$	Decimal:	0.077	$\frac{4 \div 4}{4 \div 4} = \frac{1}{4}$	Decimal:	0.083	$\frac{3 \div 3}{39 Cards}$	Decimal:	0.077
$\rightarrow 1 \div 13 = 0.077$	Percent:	7.7%	$_{48 \div 4}^{48 \div 4}{12}^{12}$ $\rightarrow 1 \div 12 = 0.083$	Percent:	8.3%	$_{39 \div 3}^{39 \div 3} \stackrel{-}{}_{13}$ $\rightarrow 1 \div 13 = 0.077$	Percent:	7.7%

71:13 - 0.077	Percent: 7.7%	$\rightarrow 1 \div 12 = 0.083$	Percent: 8	8.3%	$\rightarrow 1 \div 13 = 0.077$	Percent:	7.7%
1. If you choose a car deck, what is the pro will get a black card?	bability that you	2. If you choose a car deck, what is the pro will get a black card, already removed all cards?	bability that you	ou 1	3. If you choose a car deck, what is the pro will get a black card, removed the 2 of spa back in the deck?	bability that given that yo	you ou had
4. If you choose a car deck, what is the pro will get a 2 or a King	bability that you	5. If you choose a car deck, what is the pro will get a 2 or a King, the face cards had be the deck?	bability that yo	ou of	6. If you choose a car deck, what is the pro will get a black or a r	bability that	
	Fraction: Reduced Fraction: Decimal: Percent:		Fraction: Reduced Fraction: Decimal: Percent:			Fraction: Reduced Fraction: Decimal: Percent:	

Name: \_\_\_\_\_\_ Per: \_\_\_\_

7. II you choose a car	d out of a 52-card	8. If you choose a car	d out of a 52-card	9. If you choose a car	rd out of a 52-card
deck, what is the probability that you		deck, what is the probability that you deck,		deck, what is the probability that you	
will get a blue card?		will get a 6 of Diamo	nds?	will get a 6 of diamo	nds, given that you
				already removed all	
				deck?	
	Original		Original		Original
	Fraction:		Fraction:		Fraction:
	Reduced		Reduced		Reduced
	Fraction:				Fraction:
	Fraction:		Fraction:		riaction:
	Decimal:		Decimal:		Decimal:
	Percent:		Percent:		Percent:
	1 01 00110.		1 01 00110.		1 01 001101
10. If you choose a ca	ard out of a 52-	11. If you choose a ca	ard out of a 52-	12. If you choose a c	ard out of a 52-
	e probability that				e probability that
card deck, what is th		card deck, what is th	e probability that	card deck, what is th	
		card deck, what is th you will get an even	e probability that	card deck, what is the you will get an even	card, given that a
card deck, what is th		card deck, what is th	e probability that	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the
card deck, what is th	number card?	card deck, what is th you will get an even	e probability that number card or an	card deck, what is the you will get an even	card, given that a emoved from the put back into it?
card deck, what is th	number card?  Original	card deck, what is th you will get an even	e probability that number card or an  Original	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the put back into it?  Original
card deck, what is th	number card?  Original Fraction:	card deck, what is th you will get an even	e probability that number card or an  Original Fraction:	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the put back into it?  Original Fraction:
card deck, what is th	Original Fraction: Reduced	card deck, what is th you will get an even	e probability that number card or an  Original Fraction: Reduced	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the put back into it?  Original Fraction:  Reduced
card deck, what is th	number card?  Original Fraction:	card deck, what is th you will get an even	e probability that number card or an  Original Fraction:	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the put back into it?  Original Fraction:
card deck, what is th	Original Fraction: Reduced Fraction:	card deck, what is th you will get an even	Original Fraction: Reduced Fraction:	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the put back into it?  Original Fraction:  Reduced Fraction:
card deck, what is th	Original Fraction: Reduced	card deck, what is th you will get an even	e probability that number card or an  Original Fraction: Reduced	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the put back into it?  Original Fraction:  Reduced
card deck, what is th	Original Fraction: Reduced Fraction: Decimal:	card deck, what is th you will get an even	Original Fraction: Reduced Fraction: Decimal:	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the put back into it?  Original Fraction:  Reduced Fraction:  Decimal:
card deck, what is th	Original Fraction: Reduced Fraction:	card deck, what is th you will get an even	Original Fraction: Reduced Fraction:	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the put back into it?  Original Fraction:  Reduced Fraction:
card deck, what is th	Original Fraction: Reduced Fraction: Decimal:	card deck, what is th you will get an even	Original Fraction: Reduced Fraction: Decimal:	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the put back into it?  Original Fraction:  Reduced Fraction:  Decimal:
card deck, what is th	Original Fraction: Reduced Fraction: Decimal:	card deck, what is th you will get an even	Original Fraction: Reduced Fraction: Decimal:	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the put back into it?  Original Fraction:  Reduced Fraction:  Decimal:
card deck, what is th	Original Fraction: Reduced Fraction: Decimal:	card deck, what is th you will get an even	Original Fraction: Reduced Fraction: Decimal:	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the put back into it?  Original Fraction:  Reduced Fraction:  Decimal:
card deck, what is th	Original Fraction: Reduced Fraction: Decimal:	card deck, what is th you will get an even	Original Fraction: Reduced Fraction: Decimal:	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the put back into it?  Original Fraction:  Reduced Fraction:  Decimal:
card deck, what is th	Original Fraction: Reduced Fraction: Decimal:	card deck, what is th you will get an even	Original Fraction: Reduced Fraction: Decimal:	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the put back into it?  Original Fraction:  Reduced Fraction:  Decimal:
card deck, what is th	Original Fraction: Reduced Fraction: Decimal:	card deck, what is th you will get an even	Original Fraction: Reduced Fraction: Decimal:	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the put back into it?  Original Fraction:  Reduced Fraction:  Decimal:
card deck, what is th	Original Fraction: Reduced Fraction: Decimal:	card deck, what is th you will get an even	Original Fraction: Reduced Fraction: Decimal:	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the put back into it?  Original Fraction:  Reduced Fraction:  Decimal:
card deck, what is th	Original Fraction: Reduced Fraction: Decimal:	card deck, what is th you will get an even	Original Fraction: Reduced Fraction: Decimal:	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the put back into it?  Original Fraction:  Reduced Fraction:  Decimal:
card deck, what is th	Original Fraction: Reduced Fraction: Decimal:	card deck, what is th you will get an even	Original Fraction: Reduced Fraction: Decimal:	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the put back into it?  Original Fraction:  Reduced Fraction:  Decimal:
card deck, what is th	Original Fraction: Reduced Fraction: Decimal:	card deck, what is th you will get an even	Original Fraction: Reduced Fraction: Decimal:	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the put back into it?  Original Fraction:  Reduced Fraction:  Decimal:
card deck, what is th	Original Fraction: Reduced Fraction: Decimal:	card deck, what is th you will get an even	Original Fraction: Reduced Fraction: Decimal:	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the put back into it?  Original Fraction:  Reduced Fraction:  Decimal:
card deck, what is th	Original Fraction: Reduced Fraction: Decimal:	card deck, what is th you will get an even	Original Fraction: Reduced Fraction: Decimal:	card deck, what is the you will get an even 7, a 5 and a 4 were r	card, given that a emoved from the put back into it?  Original Fraction:  Reduced Fraction:  Decimal:

1. $Original: \frac{26}{52}$	Reduced: $\frac{1}{2}$	2. Original: $\frac{26}{46}$	Reduced: $\frac{13}{23}$	3. Original: $\frac{26}{52}$ Reduced: $\frac{1}{2}$
Decimal: 0.500	Percent: 50.0%	Decimal: 0.565	Percent: 56.5%	Decimal: 0.500 Percent: 50.0%
$4. Original : \frac{8}{52}$	Reduced: $\frac{2}{13}$	5. Original: $\frac{4}{40}$	Reduced: $\frac{1}{10}$	6. Original: $\frac{52}{52}$ Reduced: $\frac{1}{1}$
Decimal: 0.154	Percent: 15.4%	Decimal: 0.100	Percent: 10.0%	Decimal: 1.000 Percent: 100.0%
7. $Original : \frac{0}{52}$	Reduced: 0	8. Original: $\frac{1}{52}$	Reduced: $\frac{1}{52}$	9. Original: $\frac{0}{48}$ Reduced: $\frac{0}{1}$
Decimal: 0.000	Percent: 0.0%	Decimal: 0.019	Percent: 1.9%	Decimal: 0.000 Percent: 0.0%
10. <i>Original</i> : $\frac{20}{52}$	Reduced: $\frac{5}{13}$	11. <i>Original</i> : $\frac{36}{52}$	Reduced: $\frac{9}{13}$	12. <i>Original</i> : $\frac{19}{50}$ <i>Reduced</i> : $\frac{19}{50}$
Decimal: 0.385	Percent: 38.5%	Decimal: 0.692	Percent: 69.2%	Decimal: 0.380