

Statistics


Introduction to Probability





Introduction to Probability

Experiment	Outcome
Favorable Outcome "WIN"	
PROBABILITY:	$= \frac{1}{2} = .5$
$\frac{\text{NUMBER OF WAYS YOU WIN}}{\text{NUMBER OF POTENTIAL OUTCOMES}}$	$= 50\%$



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Probability of rolling a 3: $1/6$

Probability of rolling > 4 :
 $2/6 = 1/3 = .333 = 33.3\%$

Probability of rolling an even number: $= 3/6 = 50\%$

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YOU TRY IT
Hit your Pause Key, try the problem, then hit your Forward Key to move to the answer.

What is the probability of spinning this wheel and landing on Red, Orange or Red-Orange?

You try it!


YOU TRY IT
Hit your Pause Key, try the problem, then hit your Forward Key to move to the answer.

NUMBER OF WAYS YOU WIN
NUMBER OF POTENTIAL OUTCOMES

What is the probability of spinning this wheel and landing on Red, Orange or Red-Orange?

You try it!

$= 3/12 = 1/4 = 25\%$




YOU TRY IT

Hit your Pause Key, try the problem, then hit your Forward Key to move to the answer.

What is the probability, if you draw one card at random from a deck of 52 playing cards, that you pick a hearts?

You try it!




YOU TRY IT

What is the probability, if you draw one card at random from a deck of 52 playing cards, that you pick a hearts?

You try it!

$13/52 = 1/4 = 25\%$



YOU TRY IT

Hit your Pause Key, try the problem, then hit your Forward Key to move to the answer.

Forty girls signed up for the basketball league. There will be five teams in the league, and each girl will be assigned at random to one of the teams. You want to be on either the Thunder Team or the Lightning Team. What is the probability that you will be chosen to be on one of the teams you want?

You try it!

YASK TRY IT

Hit your Pause Key, try the problem, then hit your Forward Key to move to the answer.

NUMBER OF WAYS YOU WIN
NUMBER OF POTENTIAL OUTCOMES

Forty girls signed up for the basketball league. There will be five teams in the league, and each girl will be assigned at random to one of the teams. You want to be on either the Thunder Team or the Lightning Team. What is the probability that you will be chosen to be on one of the teams you want?

2

You try it!

$2/5 = 40\%$

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