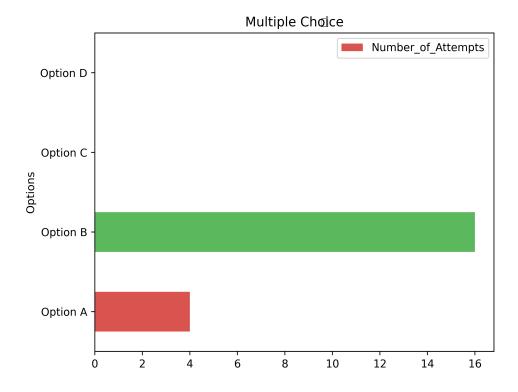
LearnLab Summer School

Analyzing OLI Data

Item Analysis (MCQs)

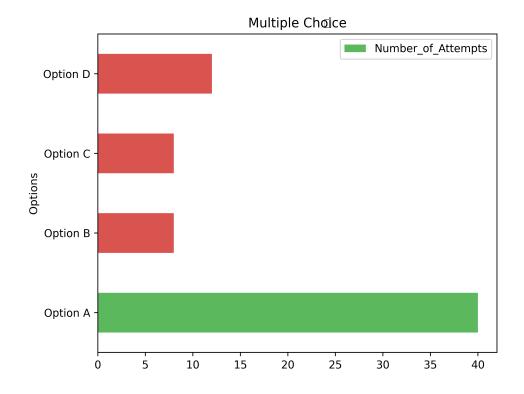
If you roll a six-sided die, what is the probability of getting a 5?

- 1/5
- 16.66%
- 20%
- not present



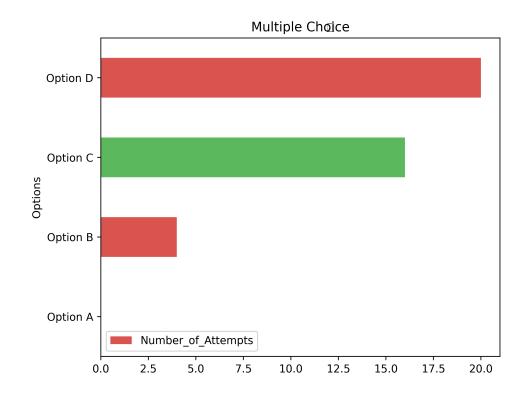
If you roll a six-sided die, what are the odds in favor of not rolling a 5?

- 5:1
- 5/6
- 0.8333
- 83.33%



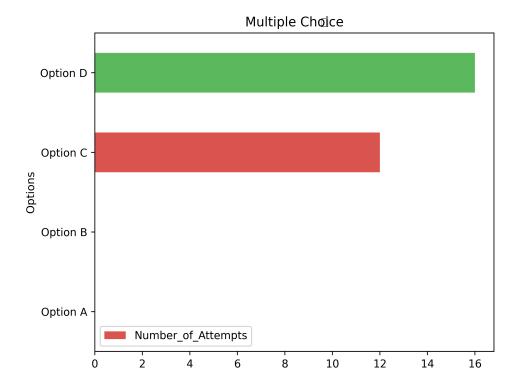
If you roll a six-sided dice, what is the probability of not rolling an even number?

- 3/6
- 3:3
- 0.5
- 3/6, 3:3



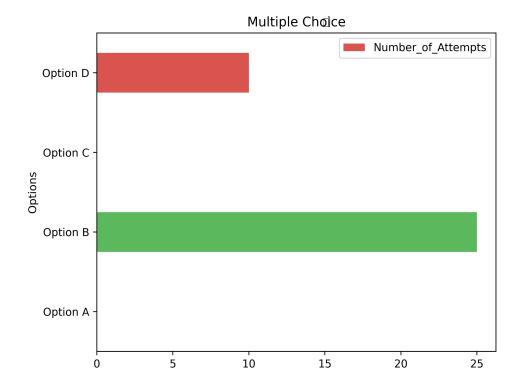
If you roll a six-sided dice, what are the odds in favor of rolling an even number?

- 1:1
- 3:3
- 0.5
- 1:1, 3:3



If the odds of an event is 2:1, what is the probability of the event?

- 200%
- 66.66%
- 33.33%
- 50%



Steph Curry is able to make 90.6% of the free throws that he attempts. If Steph Curry is about

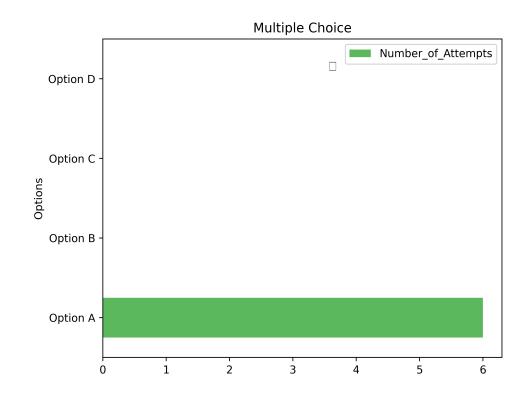
to make a free throw, what are approximately the odds of him successfully making it?

• 9:1

• 1:9

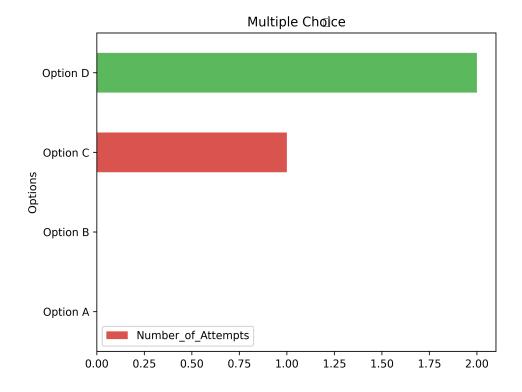
• 90/100

• -1



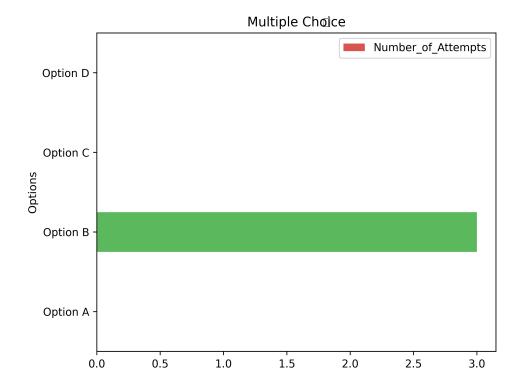
If the probability of an event is 24%, what are the odds of the event?

- 24/100
- 76/24
- 76/100
- 24/76



If the odds of an event is 3:2, what is the probability of the event?

- 150%
- 60%
- 30%
- 50%

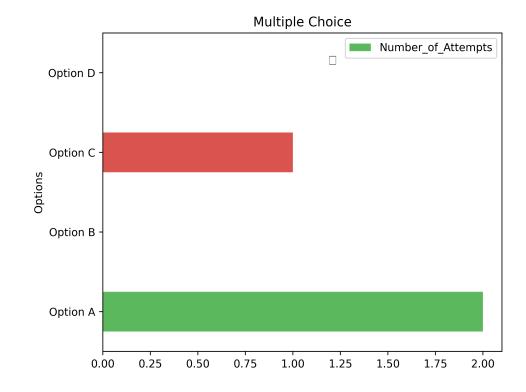


If the probability of Event A is 3/10 and the odds of Event B is 4/10, which event is more likely

to occur?

- Event A is more likely to occur
- Event B is more likely to occur
- Event A and Event B are equally likely to occur

not present

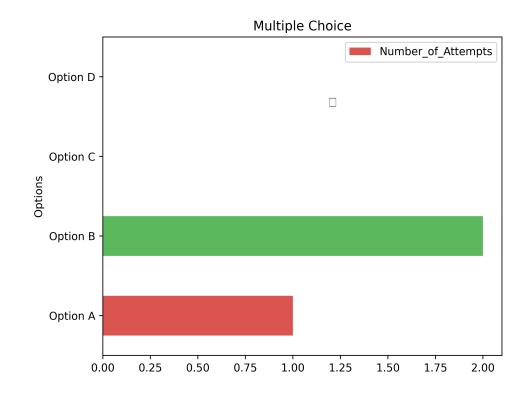


Francis is a contestant on a game show. In order to win, they need to choose one of 15 doors.

Behind 3 of the doors is a winning prize. Francis thinks that the odds of losing the game show

is 12:15. Is Francis correct or incorrect?

- Francis is correct
- Francis is incorrect
- not present
- not present



If the sprinter runs 100 races and wins 5 and loses the other 95 times, what is the probability of

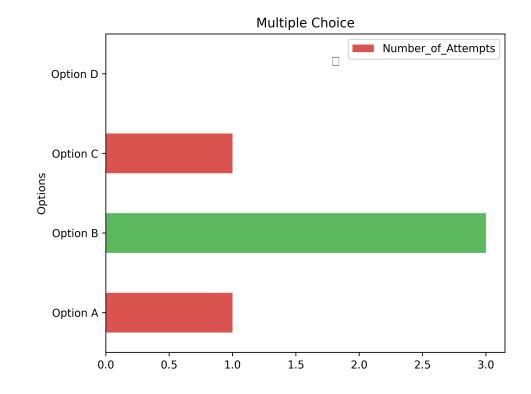
winning?Select the correct answer

• 0.05%

• 5%

• 95/100

not present



If the sprinter runs 100 races and wins 80, what are the odds of the sprinter winning a

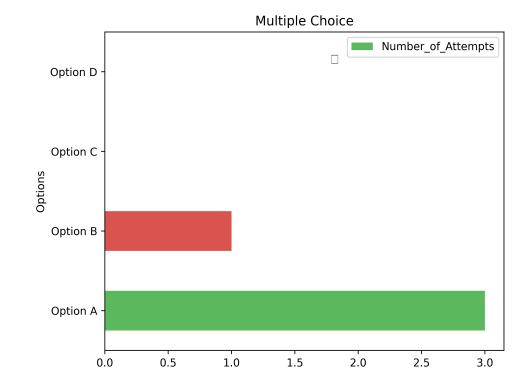
race?Select the correct answer

• 80:20 or 4:1

• 20:80 or 1:4

• 80:100 or 4:5

• 100:80 or 5:4



Answers from Single Response Questions

The	_ can be defined as the fraction of times you expect to see an event in a number of possible trials.
probability	

Explain why your answer was correct or incorrect.

It is correct because odds is the probability of the event happening divied by the proability of the event not happening
This is the definition of probability. Odds are the probability that the event will occur divided by the probability that the event will
not occur
xyz
xyz
xyz
It is correct because odds is the probability of the event happening divied by the proability of the event not happening
This is the definition of probability. Odds are the probability that the event will occur divided by the probability that the event will
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It is correct because odds is the probability of the event happening divied by the proability of the event not happening
This is the definition of probability. Odds are the probability that the event will occur divided by the probability that the event will
not occur

If the odds of Event A is 1:4, what is the probability of Event A? Express your answer as a decimal number between 0 and 1.

xyz	
0.25	
0.25	

Explain why Francis is correct or incorrect.

Francis is mixing up odds and probability

Francis is incorrect because they are mixing up odds and probability

xyz