Probability =



probability

probability







After rolling a six sided cube 28 times, Johnny recorded the following results:

| Outcome | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Frequency | 5 | 3 | 7 | 3 | 5 | 5 |

What was the experimental probability of rolling a 6 expressed as a fraction?

a. $\frac{5}{28}$

b. $\frac{1}{4}$

c. $\frac{13}{28}$

d. $\frac{9}{28}$





A bag contains the following number of marbles:

| Color | Quantity |
|---|---|
| Red | 6 |
| Green | 7 |
| Yellow | 9 |
| Blue | 8 |

What is the theoretical probability of selecting one, blue marble at random expressed as a percent to the nearest tenth?

a. 33.3%

b. 26.7%

c. 46.7%

d. 50.0%

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After rolling a six sided cube 23 times, Johnny recorded the following results:

| Outcome | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Frequency | 5 | 7 | 3 | 5 | 1 | 2 |

What was the experimental probability of rolling an even number expressed as a fraction?

a. $\frac{19}{23}$
b. $\frac{17}{23}$
c. $\frac{14}{23}$
d. $\frac{21}{23}$



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A bag contains the following number of marbles:

| Color | Quantity |
|---|---|
| Red | 9 |
| Green | 6 |
| Yellow | 8 |
| Blue | 7 |

What is the theoretical probability of selecting one, green marble at random expressed as a decimal to the nearest thousandth?

a. 0.300
b. 0.667
c. 0.267
d. 0.200





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After rolling a six sided cube 31 times, Johnny recorded the following results:

| Outcome | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Frequency | 5 | 7 | 6 | 1 | 6 | 6 |

What was the experimental probability of not rolling a 4 expressed as a fraction?

a. $\frac{23}{31}$
b. $\frac{30}{31}$
c. $\frac{25}{31}$
d. $\frac{23}{31}$



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After rolling a six sided cube 31 times, Johnny recorded the following results:

| Outcome | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Frequency | 5 | 7 | 6 | 6 | 2 | 5 |

What was the experimental probability of rolling an even number expressed as a fraction?

a. $\frac{26}{31}$
b. $\frac{21}{31}$
c. $\frac{18}{31}$
d. $\frac{24}{31}$

After rolling a six sided cube 28 times, Johnny recorded the following results:

| Outcome | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Frequency | 7 | 5 | 1 | 6 | 2 | 7 |

What was the experimental probability of rolling a 6 expressed as a fraction?

a. $\frac{1}{4}$

b. $\frac{9}{28}$

c. $\frac{5}{14}$

d. $\frac{1}{2}$