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QUESTION 1

Dhafir pulls a letter tile out of a bag, records the result, then puts it back in the bag. This table shows the results of his trials.

| Letter | Number of Times Pulled |
|--------|------------------------|
| E | 25 |
| F | 35 |
| G | 14 |
| H | 26 |

1. What is the experimental probability of pulling a G from the bag? %

2. After his experiment, Dhafir finds that there are 300 tiles in the bag. How many letter G tiles should Dhafir expect to find in the bag?

- 30 26 25 35

QUESTION 2

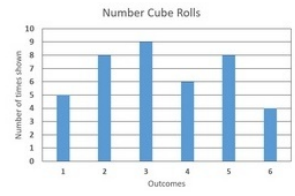
QUESTION 2



The graph shows the results of rolling a number cube.

The experimental probability of showing 5 is $\frac{1}{5}$.

If the number cube is rolled 200 times, number 5 is expected to show 40 times.



QUESTION 3



The graph shows the results of rolling a number cube.

1

Number Cube Rolls

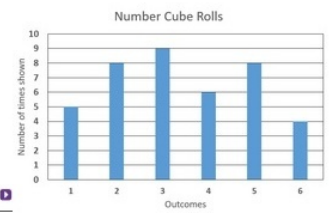
10

QUESTION 3

The graph shows the results of rolling a number cube.

The experimental probability of showing 6 is $\frac{1}{10}$.

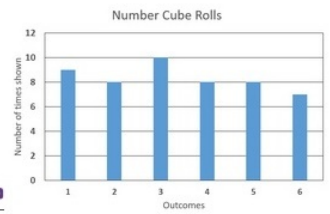
If the number cube is rolled 200 times, number 6 is expected to show 20 times.

**QUESTION 4**

The graph shows the results of rolling a number cube.

The experimental probability of showing 3 is $\frac{1}{5}$.

If the number cube is rolled 300 times, number 3 is expected to show 60 times.

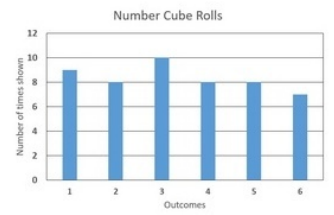
**QUESTION 5**

QUESTION 6

The graph shows the results of rolling a number cube.

The experimental probability of showing 4 is $\frac{4}{25}$.

If the number cube is rolled 300 times, number 4 is expected to show 48 times.



QUESTION 6

The graph shows the results of flipping a coin.

The experimental probability of heads is $\frac{7}{12}$.

If the coin is flipped 600 times, heads is expected to show 350 times.



QUESTION 7

The pie chart shows the results of a survey.

If there are 600 students in the school, students are expected to select mandi as the main course.

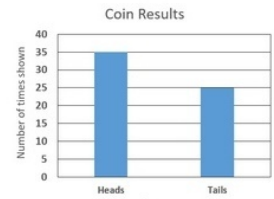


QUESTION 8

The graph shows the results of flipping a coin.

The experimental probability of tails is .

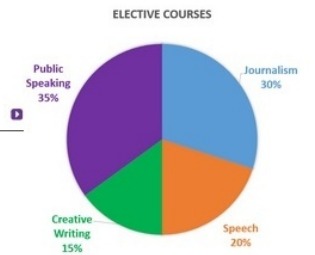
If the coin is flipped 600 times, tails are expected to show times.



QUESTION 9

The pie chart shows the results of a survey.

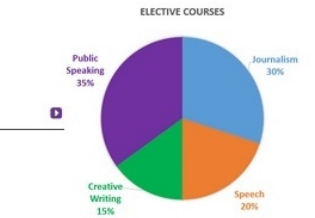
If there are 3,000 students in the college, students are expected to select public speaking as an elective course.



QUESTION 10

The pie chart shows the results of a survey.

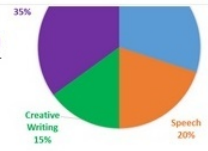
If there are 2,000 students in the college, students are expected to select journalism as an elective course.



QUESTION 11

QUESTION 11

1

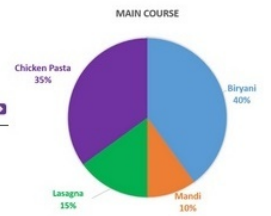


The pie chart shows the results of a survey.

If there are 500 students in the school, students are expected to select biryani as a main course.

QUESTION 12

1

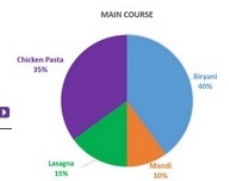


The pie chart shows the results of a survey.

If there are 700 students in the school, students are expected to select lasagna as a main course.

QUESTION 13

1



Hazzaa pulls a letter tile out of a bag, records the result, then puts it back in the bag. This table shows the results of his trials.

| Letter | Number of Times Pulled |
|--------|------------------------|
| E | 25 |
| F | 35 |
| G | 14 |
| H | 26 |

1. What is the experimental probability of pulling an E from the bag? %

2. After his experiment, Hazzaa finds that there are 300 tiles in the bag. How many letter E tiles should Hazzaa expect to find in the bag?

QUESTION 14

Maitha flipped a coin. 54% of the outcomes showed heads.

If Maitha flips the same coin 250 times, heads are expected to show times.



QUESTION 16

1

Shamma flipped a coin. 26% of the outcomes showed tails.

If Shamma flips the same coin 350 times, tails are expected to show

times.

**QUESTION 16**

1

A school randomly selected some students to choose a new extracurricular activity.

65% of students chose photography. If there are 800 students in the school, students are expected to choose photography.

QUESTION 17

1

A school randomly selected some students to choose a new extracurricular activity.

A school randomly selected some students to choose a new extracurricular activity.

35% of the students chose drama.

If there are 1,200 students in the school, students are expected to choose drama.

QUESTION 18



A basketball team won 70% of this year's games.

If the team will participate in 50 games next year, they will be expected to win games.

QUESTION 19



A basketball team won 60% of this year's games.

If the team will participate in 45 games next year, they will be expected to win games.



QUESTION 20

A factory found that 8% of its produced light bulbs are defective.
If the factory produces 500 light bulbs, how many light bulbs are expected to be defective?



400

492

250

40 ✓

QUESTION 21

A factory found that 6% of its produced light bulbs are defective. If the factory produces 700 light bulbs, how many light bulbs are expected to be defective?



694

42 ✓

420

350

QUESTION 22

The admission department of a school claims that 74% of the applications are accepted each year.
If 2,000 applications will be submitted next year, how many applications are expected to be accepted?



1,926

1,074

1,480 ✓

1,500

QUESTION 23

The admission department of a school claims that 68% of the applications are accepted each year.
If 3,000 applications will be submitted next year, how many applications are expected to be accepted?



2,040 ✓

2,068

1,020

1,500

Back

Make Predictions

0/26
Completed

0%
Average Score

A shipping company claims that 0.05% of the boxes it carries are damaged.
If 6,000 boxes are shipped, how many boxes are expected to be damaged?

3 ✓

300

50

30

QUESTION 26



A shipping company claims that 0.02% of the boxes it carries are damaged.
If 5,000 boxes are shipped, how many boxes are expected to be damaged?

2

100

1 ✓

10

QUESTION 26



Meera flipped a coin 100 times and obtained 60 tails.



ack

make predictions

Completed

Meera flipped a coin 100 times and obtained 60 tails.

The experimental probability of getting tails is %

Based on the results that Meera got, she might get tails if she flips the same coin 300 times.

QUESTION 27

Huda flipped a coin 100 times and obtained 52 heads.

The experimental probability of getting heads is %

Based on the results that Huda got, she might get heads, if she flips the same coin 200 times.

QUESTION 28

Salma flipped a coin 100 times and obtained 74 heads.

If Salma flips the same coin 200 times, how many heads are expected to show?

- 174
- 148
- 74
- 37

Mahra uses an electronic spinner to simulate spinning a spinner. She records her results in a table.

| Number | Number of Times Spun |
|--------|----------------------|
| 1 | 10 |
| 2 | 8 |
| 3 | 5 |
| 4 | 12 |
| 5 | 15 |

1. What is the experimental probability of spinning a 4?
2. If Mahra spins the spinner 500 times, how many times is a 4 expected to appear?

QUESTION 30

Maitha uses an electronic spinner to simulate spinning a spinner. She records her results in a table.

| Number | Number of Times Spun |
|--------|----------------------|
| 1 | 28 |
| 2 | 16 |
| 3 | 12 |
| 4 | 20 |
| 5 | 24 |

1. What is the experimental probability of spinning a 5?
2. If Maitha spins the spinner 300 times, how many times is 5 expected to appear?

Humaid has a bag filled with differently colored marbles. He pulls a marble from the bag, records the result, and then puts it back into the bag. He records the results of his trials in a table.

| Marble | Number of Times Pulled |
|---------|------------------------|
| Solid | 23 |
| Striped | 37 |
| Clear | 30 |

1. The experimental probability of selecting a clear marble is $\frac{1}{3}$.

2. If Humaid pulls 300 marbles, he should expect to select 100 clear marbles.

QUESTION 32



Hind randomly selected 50 students at her school to ask about their favorite venue for the senior graduation ceremony. 40 students chose the national theater.



If there are 600 students in the school, how many students are expected to choose the national theater for the graduation ceremony?

- 400
- 240
- 500
- 480 ✓

Mohamed used a random sample of 60 students, and found that 24 students use the bus to come to school.

If there are 500 students in the school, how many students are expected to use the bus?



84

200 ✓

300

250

QUESTION 34

Saleh used a random sample of 40 students, and found that 15 students use the bus to come to school.

If there are 400 students in the school, how many students are expected to use the bus?

120

55

150 ✓

100

Rashid selected 20 marbles from a bag of marbles and obtained 6 blue marbles.

How many blue marbles are expected to be in the bag if it contains 500 marbles?



QUESTION 36

1

Rashid selected 60 marbles from a bag of marbles and obtained 12 red marbles.

How many red marbles are expected to be in the bag if it contains 700 marbles?



QUESTION 37

1

Osama selected 70 marbles from a bag of marbles and obtained 21 yellow marbles.

How many yellow marbles are expected to be in the bag if it contains 500 marbles?



QUESTION 38

1

QUESTION 38

Ali rolled a number cube 60 times. Number 4 appeared 24 times.



If Ali rolls the same cube 300 times, number 4 is expected to appear times.

QUESTION 39

Fares rolled a number cube 50 times. Number 6 appeared 24 times.



If Fares rolls the same cube 200 times, number 6 is expected to appear times.

QUESTION 40

Nouf randomly selected 80 students at her school to ask them about their favorite venue for the senior graduation ceremony. 40 students chose the national theater.

If there are 500 students in the school, how many students are expected to choose the national theater for the graduation ceremony?



Nouf randomly selected 80 students at her school to ask them about their favorite venue for the senior graduation ceremony. 40 students chose the national theater.

If there are 500 students in the school, how many students are expected to choose the national theater for the graduation ceremony?

 200 120 250 400

QUESTION 41



Fatema pulls a letter tile out of a bag, records the result, then puts it back in the bag. This table shows the results of her trials.

| Letter | Number of Times Pulled |
|--------|------------------------|
| A | 50 |
| B | 70 |
| C | 34 |
| D | 46 |

1. What is the experimental probability of pulling an A from the bag? %

2. After her experiment, Fatema finds that there are 1,000 tiles in the bag. How many letter A tiles should Fatema expect to find in the bag?

Choice

QUESTION 42

Halima pulls a letter tile out of a bag, records the result, then puts it back in the bag. This table shows the results of her trials.

| Letter | Number of Times Pulled |
|--------|------------------------|
| A | 50 |
| B | 70 |
| C | 34 |
| D | 46 |

1. What is the experimental probability of pulling a B from the bag? %
2. After her experiment, Halima finds that there are 1,000 tiles in the bag. How many letter B tiles should Halima expect to find in the bag?

QUESTION 43

Aisha found that 3% of the eggs she bought last month were cracked.



If Aisha will buy 400 eggs next month, she should expect eggs to be cracked.

QUESTION 44

Afra found that 5% of the eggs bought in a month were cracked.

If Afra buys 60 eggs next month, how many eggs are expected to be cracked?



12

6

3



1

QUESTION 45

Sumaya found that 6% of the eggs she bought last month were cracked.

If Sumaya will buy 150 eggs next month, she should expect eggs to be cracked.

**QUESTION 46**

Amer has a bag filled with differently colored marbles. He pulls a marble from the bag, records the result, and then puts it back into the bag. He records the results of his trials in a table.

QUESTION 46

1

Amer has a bag filled with differently colored marbles. He pulls a marble from the bag, records the result, and then puts it back into the bag. He records the results of his trials in a table.

| Marble | Number of Times Pulled |
|---------|------------------------|
| Solid | 23 |
| Striped | 55 |
| Clear | 22 |

1. The experimental probability of selecting a striped marble is $\frac{11}{20}$ ✓

2. If Amer pulls 400 marbles, he should expect to select 220 ✓ clear marbles.

QUESTION 47

1

Zubair has a bag filled with differently colored marbles. He pulls a marble from the bag, records the result, and then puts it back into the bag. He records the results of his trials in a table.

| Marble | Number of Times Pulled |
|---------|------------------------|
| Solid | 20 |
| Striped | 42 |
| Clear | 38 |

1. The experimental probability of selecting a solid marble is .

2. If Zubair pulls 200 marbles, he should expect to select clear marbles.

QUESTION 49

1

Abdulaziz randomly selected 30 students at his school to ask them about their favorite sport. 12 students chose football.



If there are 720 students in the school, students are expected to choose football as their favorite sport.

QUESTION 49

1

Mayed rolled a number cube 40 times. Number 1 appeared 25 times.



If Mayed rolls the same cube 360 times, number 1 is expected to appear times.

QUESTION 50

1

The pie chart shows the results of a survey.

QUESTION 49

1

Mayed rolled a number cube 40 times. Number 1 appeared 25 times.



If Mayed rolls the same cube 360 times, number 1 is expected to appear times.

QUESTION 50

1

The pie chart shows the results of a survey.

If there are 5,000 students in the college, students are expected to select Speech as an elective course.

