MISSISSIPPI ALGEBRA 2 · UNIT 4 · 25 QUESTIONS

Statistics and Probability, 25-question test — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **The mean of 2, 4, 6, 8, 10 is**

1 **The mean of 2, 4, 6, 8, 10 is**

Question 1

The mean of 2, 4, 6, 8, 10 is

A) 5 B) 6

C) 7 D) 8

A 5

B 6

C 7

D 8

A 5

B 6

C 7

D 8

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2 The median of 3, 5, 7, 9, 11 is

2 The median of 3, 5, 7, 9, 11 is

Question 2

The median of 3, 5, 7, 9, 11 is

A) 9

B) 7

C) 11

D) 5

A 9

B 7

C 11

D 5

A 9

B 7

C 11

D 5

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3 **The mode of 4, 7, 4, 9, 7, 4 is**

3 **The mode of 4, 7, 4, 9, 7, 4 is**

Question 3

The mode of 4, 7, 4, 9, 7, 4 is

A) 4 B) 6

C) 7 D) 9

A 4
B 6
C 7
D 9

A 4

B 6

C 7

D 9

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4 **The range of 2, 4, 6, 8, 10 is**

4 **The range of 2, 4, 6, 8, 10 is**

Question 4

The range of 2, 4, 6, 8, 10 is

A) 5

B) 10

C) 6

D) 8

A 5

B 10

C 6

D 8

A 5

B 10

C 6

D 8

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5 **For the data 2, 4, 6, 8, 10, 12, 14, the interquartile range is**

5 **For the data 2, 4, 6, 8, 10, 12, 14, the interquartile range is**

Question 5

For the data 2, 4, 6, 8, 10, 12, 14, the interquartile range is

A) 6 B) 10

C) 8 D) 12

A 6
B 10
C 8
D 12

A 6

B 10

C 8

D 12

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6 **In a normal distribution with mean 100 and standard deviation 15, about what percent of values lie within one standard deviation of the mean?**

6 **In a normal distribution with mean 100 and standard deviation 15, about what percent of values lie within one standard deviation of the mean?**

Question 6

In a normal distribution with mean 100 and standard deviation 15, about what percent of values lie within one standard deviation of the mean?

A) 68%

B) 95%

C) 99.7%

D) 50%

A 68%

B 95%

C 99.7%

D 50%

A 68%

B 95%

C 99.7%

D 50%

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7 **For a score of 130 in a distribution with mean 100 and standard deviation 15, the z-score is**

7 **For a score of 130 in a distribution with mean 100 and standard deviation 15, the z-score is**

Question 7

For a score of 130 in a distribution with mean 100 and standard deviation 15, the z −score is

A) 3

B) 30

C) 1

D) 2

A 3

B 30

C 1

D 2

A 3

B 30

C 1

D 2

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8 **The probability of rolling a 5 on a fair six-sided die is**

8 **The probability of rolling a 5 on a fair six-sided die is**

Question 8

The probability of rolling a 5 on a fair six – sided die is

A) $\frac{1}{2}$ B) $\frac{1}{6}$

C) $\frac{1}{3}$ D) $\frac{5}{6}$

A 1/2
B 1/6
C 1/3
D 5/6

A 1/2

B 1/6

C 1/3

D 5/6

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9 **The probability of drawing a red card from a standard 52-card deck is**

9 **The probability of drawing a red card from a standard 52-card deck is**

Question 9

The probability of drawing a red card from a standard 52 –card deck is

A) $\frac{1}{4}$ B) $\frac{1}{2}$

C) $\frac{1}{13}$ D) $\frac{3}{4}$

A 1/4

B 1/2

C 1/13

D 3/4

A 1/4

B 1/2

C 1/13

D 3/4

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10 **The probability of drawing an ace from a standard 52-card deck is**

10 **The probability of drawing an ace from a standard 52-card deck is**

Question 10

The probability of drawing an ace from a standard 52 −card deck is

A) $\frac{1}{13}$ B) $\frac{1}{4}$

C) $\frac{4}{13}$ D) $\frac{1}{52}$

A 1/13

B 1/4

C 4/13

D 1/52

A 1/13

B 1/4

C 4/13

D 1/52

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11 **The probability of getting heads on both of two fair coin flips is**

11 **The probability of getting heads on both of two fair coin flips is**

Question 11

The probability of getting heads on both of two fair coin flips is

A) $\frac{3}{4}$ B) $\frac{1}{3}$

C) $\frac{1}{2}$ D) $\frac{1}{4}$

A 3/4

B 1/3

C 1/2

D 1/4

A 3/4

B 1/3

C 1/2

D 1/4

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12 **The number of combinations of 3 students chosen from 8 is**

12 **The number of combinations of 3 students chosen from 8 is**

Question 12

The number of combinations of 3 students chosen from 8 is

A) 168 B) 24

C) 56 D) 336

A 168

B 24

C 56

D 336

A 168

B 24

C 56

D 336

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13 **The number of permutations of 2 letters chosen from 6, in order, is**

13 **The number of permutations of 2 letters chosen from 6, in order, is**

Question 13

The number of permutations of 2 letters chosen from 6, in order, is

A) 12 B) 15

C) 30 D) 36

A 12

B 15

C 30

D 36

A 12

B 15

C 30

D 36

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14 **The probability of exactly 2 heads in 3 fair coin flips is**

14 **The probability of exactly 2 heads in 3 fair coin flips is**

Question 14

The probability of exactly 2 heads in 3 fair coin flips is

A) $\frac{3}{8}$ B) $\frac{1}{2}$

C) $\frac{5}{8}$ D) $\frac{1}{8}$

A 3/8

B 1/2

C 5/8

D 1/8

A 3/8

B 1/2

C 5/8

D 1/8

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15 A regression line is y = 2x + 3. The predicted value of y when x = 4 is

15 A regression line is y = 2x + 3. The predicted value of y when x = 4 is

Question 15

A regression line is $y = 2x + 3$. The predicted value of y when $x = 4$ is

A) 9

B) 14

C) 8

D) 11

A 9
B 14
C 8
D 11

A 9

B 14

C 8

D 11

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16

Which correlation coefficient shows the strongest linear relationship?

16 Which correlation coefficient shows the strongest linear relationship?

Question 16

Which correlation coefficient shows the strongest linear relationship?

A) −0.30

B) 0.45

C) −0.92

D) 0.85

A -0.30
B 0.45
C -0.92
D 0.85

A -0.30

B 0.45

C -0.92

D 0.85

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17 **A survey that asks only students in one classroom is most likely to be**

17 **A survey that asks only students in one classroom is most likely to be**

Question 17

A survey that asks only students in one classroom is most likely to be

A) a random sample

B) biased

C) a census

D) an experiment

A a random sample

B biased

C a census

D an experiment

A a random sample

B biased

C a census

D an experiment

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18 **In a group of 40 students, 12 play soccer and 18 play basketball, with 5 playing both. The number who play neither sport is**

18 **In a group of 40 students, 12 play soccer and 18 play basketball, with 5 playing both. The number who play neither sport is**

Question 18

In a group of 40 students, 12 play soccer and 18 play basketball, with 5 playing both. The number who play neither sport is

ANSWER

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19 **A bag has 3 red marbles and 5 blue marbles. The probability of drawing a blue marble is**

19 **A bag has 3 red marbles and 5 blue marbles. The probability of drawing a blue marble is**

Question 19

A bag has 3 red marbles and 5 blue marbles. The probability of drawing a blue marble is

A) $\frac{5}{8}$ B) $\frac{5}{3}$

C) $\frac{3}{5}$ D) $\frac{3}{8}$

A 5/8

B 5/3

C 3/5

D 3/8

A 5/8

B 5/3

C 3/5

D 3/8

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20 Two events are independent if

20 Two events are independent if

Question 20

Two events are independent if

A) they always happen together

B) their probabilities add to 1

C) they cannot both happen

D) one does not change the probability of the other

A they always happen together

B their probabilities add to 1

C they cannot both happen

D one does not change the probability of the other

A they always happen together

B their probabilities add to 1

C they cannot both happen

D one does not change the probability of the other

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21 The standard deviation measures

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Question 21

The standard deviation measures

A) the largest minus the smallest value

B) the middle value of a data set

C) the most common value

D) how spread out values are around the mean

A the largest - the smallest value

B the middle value of a data set

C the most common value

D how spread out values are around the mean

A the largest - the smallest value

B the middle value of a data set

C the most common value

D how spread out values are around the mean

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22 A fair die is rolled twice. The probability that both rolls are even is

22 A fair die is rolled twice. The probability that both rolls are even is

Question 22

A fair die is rolled twice. The probability that both rolls are even is

A) $\frac{1}{6}$ B) $\frac{1}{4}$

C) $\frac{1}{2}$ D) $\frac{1}{3}$

A 1/6

B 1/4

C 1/2

D 1/3

A 1/6

B 1/4

C 1/2

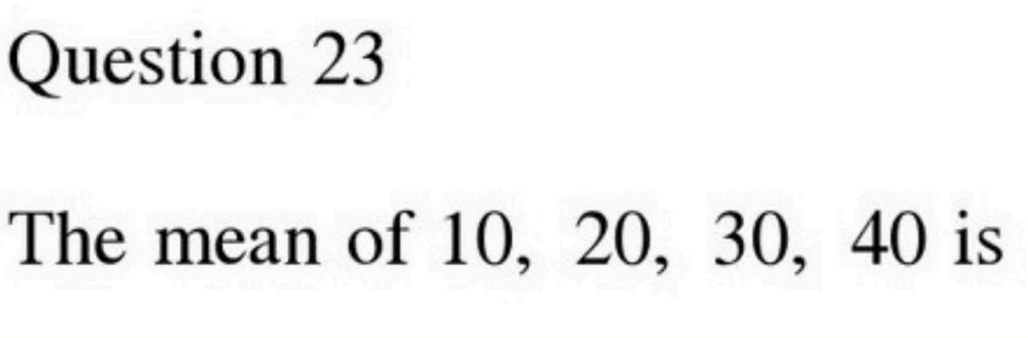
D 1/3

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23 **The mean of 10, 20, 30, 40 is**

23 The mean of 10, 20, 30, 40 is



ANSWER

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24 **In a normal distribution with mean 50 and standard deviation 10, a value of 70 is how many standard deviations above the mean?**

24 **In a normal distribution with mean 50 and standard deviation 10, a value of 70 is how many standard deviations above the mean?**

Question 24

In a normal distribution with mean 50 and standard deviation 10, a value of 70 is how many standard deviations above the mean?

A) 2

B) 3

C) 20

D) 1

A 2

B 3

C 20

D 1

A 2

B 3

C 20

D 1

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25 **A game pays 10 dollars with probability 1/2 and 0 dollars with probability 1/2. The expected value, in dollars, is**

25 **A game pays 10 dollars with probability 1/2 and 0 dollars with probability 1/2. The expected value, in dollars, is**

Question 25

A game pays 10 dollars with probability $\frac{1}{2}$ and 0 dollars with probability $\frac{1}{2}$. The expected value, in dollars, is

A) 5

B) 2.50

C) 10

D) 0

A 5

B 2.50

C 10

D 0

A 5

B 2.50

C 10

D 0

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ANSWER KEY

1. B
2. B
3. A
4. D
5. C
6. A
7. D
8. B
9. B
10. A
11. D
12. C
13. C
14. A
15. D
16. C
17. B
18. 15
19. A
20. D
21. D
22. B
23. 25
24. A
25. A

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