ARIZONA ALGEBRA II · UNIT 4 · 25 QUESTIONS

Statistics and Probability — 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 4, 6, 8, 10 is**



A 6

B 7

C 9

D 8

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2 **The median of 3, 7, 9, 11, 15 is**

A 9

B 7

C 11

D 10

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3 **The median of 2, 4, 6, 8 is**

A 3

B 6

C 4

D 5

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4 The mode of 2, 3, 3, 5, 7 is

- A 5
- B 3
- C 7
- D 2

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5 The range of 12, 18, 25, 31 is

- A 20
- B 19
- C 12
- D 31

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6 **The mean of 10, 20, 30, 40, 50 is**

A 25

B 20

C 30

D 35

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7 The probability of heads on one fair coin flip is



A $\frac{1}{4}$

B $\frac{1}{2}$

C 1

D $\frac{2}{3}$

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8 The probability of rolling a 6 on a fair die is



A $\frac{1}{3}$

B $\frac{1}{6}$

C $\frac{1}{2}$

D $\frac{1}{4}$

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9 The probability of two heads in two fair coin flips is

- **A** $\frac{1}{3}$
- **B** $\frac{3}{4}$
- **C** $\frac{1}{2}$
- **D** $\frac{1}{4}$

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10 The number of ways to choose 2 items from 5 is

- **A** 5
- **B** 10
- **C** 20
- **D** 15

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11 **The number of ordered ways to choose 2 items from 4 is**

A 6

B 24

C 12

D 8

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12 **A bag has 3 red balls and 7 blue balls The probability of drawing a red ball is**



A $\frac{3}{10}$

B $\frac{1}{3}$

C $\frac{3}{7}$

D $\frac{7}{10}$

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13 **A normal distribution has mean 100 and standard deviation 15. One standard deviation from the mean is**



A 100 to 115

B 85 to 115

C 70 to 130

D 85 to 100

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14 **A score of 130 has mean 100 and standard deviation 15 Its z score is**

A 30

B 3

C 2

D 1.5

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15 **Which correlation shows the strongest positive relationship**

A 0.05

B 0.92

C 0.31

D -0.95

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16 **A correlation of -0.85 means that as one variable increases, the other variable most often**

A decreases

B disappears

C stays the same

D increases

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17 **A survey studies 10 percent of 500 students The sample size is**



A 500

B 50

C 10

D 450

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18 **Which survey method is most likely biased**

- A Surveying every tenth name
- B A stratified sample
- C Surveying only students in one lunch line
- D A random sample

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19 **The expected number of heads in 20 fair coin flips is**

- A 15
- B 20
- C 10
- D 5

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

- **A** $\frac{1}{4}$
- **B** $\frac{1}{2}$
- **C** $\frac{1}{8}$
- **D** $\frac{3}{8}$

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21 **A larger standard deviation means the data are**

- **A** more spread out
- **B** closer to the mean
- **C** smaller in range
- **D** larger in mean

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22 If the first quartile is 20 and the third quartile is 45 the interquartile range is

- A 65
- B 20
- C 25
- D 45

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23 Five values sum to 100 Adding a sixth value equal to their mean keeps the mean at

- A 20
- B 16
- C 24
- D 22

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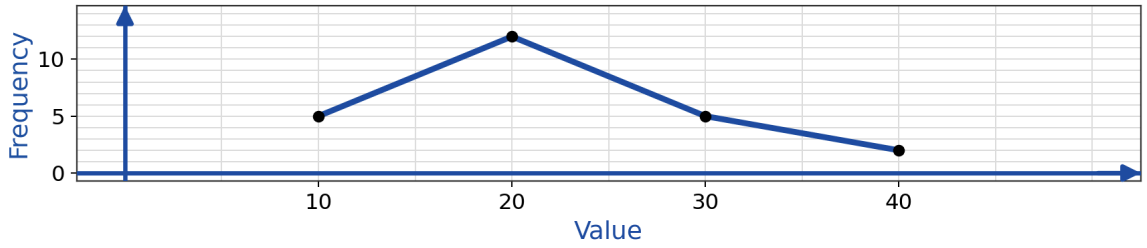
24 **The graph below shows frequencies for values 10, 20, 30, 40 The most frequent value is**



- **A** 40
- **B** 20
- **C** 30
- **D** 10

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25 **The mean of 6, 9, 12, 15, 18 is**

ANSWER _____

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ANSWER KEY

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

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