ARIZONA GEOMETRY · UNIT 4 · 10 QUESTIONS

Data Analysis 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 **A correlation coefficient of 0.15 shows a**

- A strong negative relationship
- B no data
- C strong positive relationship
- D weak positive relationship

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2 **A bag has 5 red balls and 3 blue balls. The probability of drawing a red ball first is**

- **A** $\frac{1}{8}$
- **B** $\frac{3}{8}$
- **C** $\frac{5}{3}$
- **D** $\frac{5}{8}$

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3 **The probability of flipping two heads in a row with a fair coin is**

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

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4 The number of permutations of 3 chosen from 4 in order is

- A 24
- B 4
- C 7
- D 12

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5 The number of combinations of 3 chosen from 5 is

- A 10
- B 15
- C 60
- D 8

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6 **In a normal distribution with mean 100 and standard deviation 15, a value 1 standard deviation below the mean is**

- A 100
- B 70
- C 85
- D 115

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7 **In a group of 60 students, 24 take art and 30 take music, with 10 taking both. The number taking neither is ____**

ANSWER _____

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8 **If two events cannot both happen, they are**

A certain

B complementary

C independent

D mutually exclusive

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9 **A histogram with most values low and a long tail to the right is**

A symmetric

B uniform

C skewed left

D skewed right

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10 **The probability of a certain event is _____**

ANSWER

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ANSWER KEY

1.	D	**5.**	A	**9.**	D
2.	D	**6.**	C	**10.**	1
3.	B	**7.**	16		
4.	A	**8.**	D		

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