

AQ01 Applied Healthcare Statistics C784 Version 1

Section: Applied Healthcare & Health Fitness • Total Questions: 10 • Format: Verified Q&A

1. What is $1/5 \times 3/4$?

- (A) $\{4/9\}$
 - (B) $\{4/20\}$
 - (C) $\{3/9\}$
 - (D) $[3/20]$
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2. What is the value of x in the following equation? $4(x - 3) = 8 - x$

- (A) 2
 - (B) 3
 - (C) 4
 - (D) 5
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3. A study is conducted to determine the most common blood pressure readings among sleep apnea patients who use a continuous positive airway pressure machine and those who do not. Which numerical measure is appropriate?

- (A) Regression analysis
 - (B) Five-number summary
 - (C) Correlation coefficient
 - (D) Conditional percentages
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4. What is $3/4$ divided by $2/3$?

- (A) $\{1/2\}$
 - (B) $\{9/8\}$
 - (C) $\{8/9\}$
 - (D) $[5/12]$
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5. Physicians have reviewed patient data to explore the relationship between daily physical exercise and body mass index (BMI). They categorized patients into non-exerciser and exerciser groups and according to low BMI and high BMI ratings. The data paints a vibrant picture where non-exercisers consist of 41.20% with a low BMI and 58.80% with a high BMI, harmonizing to 100%, while exercisers craft a different narrative with 57.70% holding a low BMI and 42.30% with a high BMI, also reaching 100%. How can this data be interpreted?

- (A) Those with high BMI are less likely to be non-exercisers because 41.2% is less than 42.3%.
 - (B) Those with high BMI are less likely to be non-exercisers because 57.7% is less than 58.8%.
 - (C) Those with high BMI are less likely to be non-exercisers because 58.8% is greater than 41.2%.
 - (D) Those with high BMI are more likely to be non-exercisers because 58.8% is greater than 42.3%.
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6. What are the principal square roots of 64 and 16?

- (A) 8 and 4
 - (B) 32 and 8
 - (C) 4 and 16
 - (D) 8 and 2
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7. Given the following dataset representing hours slept by patients in a certain hospital unit on a given day: 5, 4, 6, 7, 8, 5, 4, 3, 4, 5, 6, 5, 6, 5, 7, 4, 3, 4, 5, 6, 7, 3, 2, 3, 4, 5, 5, 6, 7, 8. An analyst wants to use a graphic representation of the data that shows the median number of hours slept. Which method should be used?

- (A) Histogram
 - (B) Bar chart
 - (C) Pie chart
 - (D) Box Plot
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8. Which percentage of patients had esophageal or skin cancer?

- (A) 1%
 - (B) 23%
 - (C) 32%
 - (D) 45%
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9. A study is conducted to determine the most frequent blood pressure reading among patients who consumed more than 10 alcoholic beverages in a week. Which numerical measure is appropriate?

- (A) Mode
 - (B) Median
 - (C) Correlation coefficient
 - (D) Conditional percentages
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10. What effect would removing the outlier have on the relationship between variable 1 and variable 2?

- (A) It would weaken the positive relationship
- (B) It would strengthen the positive relationship
- (C) It would strengthen the neutral relationship
- (D) It would weaken the neutral relationship