

1.5. If A and B are two independent events having positive probabilities, which of the following statements **must** be **FALSE**?

- ☐ (A) $P(A, B) = P(A)P(B)$
☐ (B) $P(A, B) = P(B)$
☐ (C) $P(A, B) = P(A)P(B)$
☒ (D) All of them can be true

2. (10 points) Let X denote the actual tracking weights of storm cartridges that are set to track at 2 g on a particular charger. Suppose that X has the following probability density function:

$$f(x) = \begin{cases} \frac{1}{2} (4 + 3x - x^2), & 0 \leq x \leq 4 \\ 0, & \text{otherwise} \end{cases}$$

a. (10 pts.) What is the probability that X is less than the prescribed weight of 2 g? Please include at least three decimal places in your answer and all work.

$$P(X < 2) = \int_0^2 f(x) dx = \int_0^2 \frac{1}{2} (4 + 3x - x^2) dx = \frac{1}{2} \left[4x + \frac{3}{2}x^2 - \frac{1}{3}x^3 \right]_0^2 = \frac{1}{2} \left(8 + 6 - \frac{8}{3} \right) = \frac{1}{2} \left(\frac{24}{3} + \frac{12}{3} - \frac{8}{3} \right) = \frac{1}{2} \left(\frac{28}{3} \right) = \frac{14}{3} \approx 4.667$$

b. (5 pts.) Is 2 g the median tracking weight of the storm cartridges? If not, is the median tracking weight smaller or larger than 2 g? No new calculations are required. Justify.

This median is less than 2 g because the probability that X is less than 2 is greater than 50%.

3. (10 pts.) Repeated question: Suppose that X has the following probability density function:

$$f(x) = \begin{cases} \frac{1}{2} (4 + 3x - x^2), & 0 \leq x \leq 4 \\ 0, & \text{otherwise} \end{cases}$$

a. (10 pts.) Calculate the variance of X. You may assume that the expected value of X is 1.8. Please include at least three decimal places in your answer and all work.

$$E(X^2) = \int_0^4 x^2 f(x) dx = \int_0^4 x^2 \frac{1}{2} (4 + 3x - x^2) dx = \frac{1}{2} \int_0^4 (4x^2 + 3x^3 - x^4) dx = \frac{1}{2} \left[\frac{4}{3}x^3 + \frac{3}{4}x^4 - \frac{1}{5}x^5 \right]_0^4 = \frac{1}{2} \left(\frac{256}{3} + \frac{48}{1} - \frac{1024}{5} \right) = \frac{1}{2} \left(\frac{1280}{15} + \frac{768}{15} - \frac{3968}{15} \right) = \frac{1}{2} \left(\frac{1040}{15} \right) = \frac{520}{15} \approx 34.667$$

$$\text{var}(X) = E(X^2) - (E(X))^2 = 34.667 - (1.8)^2 = 31.867 \approx 31.867 \text{ (2 pts. work, 1 pt. answer)}$$

b. (10 pts.) Suppose that we independently observe 10 storm cartridges and record their tracking weights, resulting in the following observations: 1.2, 1.8, 2.1, 2.5, 2.9, 3.2, 3.5, 3.8, 4.1, and 4.5. Please use the observations to estimate the variance of X. Please include at least three decimal places in your answer and all work.

Let $\bar{x}$ denote the average observations of the 10 cartridges.

$$\bar{x} = \frac{1}{10} (1.2 + 1.8 + 2.1 + 2.5 + 2.9 + 3.2 + 3.5 + 3.8 + 4.1 + 4.5) = 2.8$$

$$s^2 = \frac{1}{9} \sum_{i=1}^{10} (x_i - \bar{x})^2 = 1.4$$

$$s = \sqrt{1.4} \approx 1.183$$

$$s^2 = 1.4$$

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3. (10 points) The following histogram is for the speeds of a sample of 50 automobiles traveling on an interstate highway.



a. (2 pts.) What is the shape of the histogram?

Left skewed

b. (5 pts.) In which class would you suspect the median to be in? Please explain your answer.

Median is in 40 - 45. That is the class in which the 50th data point would be in.

c. (5 pts.) Are there any outliers in the histogram? If so, which class are they in? Please explain your answer.

Yes because the data points at 40 - 45 are far from the rest of the data.

Yes

Yes because the data points are far from the rest of the data.

d. (10 points) The average waiting time, $\bar{x}$, between two consecutive vehicles with a red light is 10.5 seconds. The standard deviation, s , is 2.5 seconds. Assume that the waiting times follow an exponential distribution.

$$f(x) = \frac{1}{s} e^{-x/s} = \frac{1}{2.5} e^{-x/2.5}$$

$$f(10.5) = \frac{1}{2.5} e^{-10.5/2.5} \approx 0.0001$$

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4. Three of these observations represent wings.

a. In statistical tests, the null hypothesis is that the sample means are all equal.

Yes, No

b. The null hypothesis is that the population means are all equal.

Yes, No

c. The null hypothesis is that the population means are all equal.

Yes, No

d. The null hypothesis is that the population means are all equal.

Yes, No

e. The null hypothesis is that the population means are all equal.

Yes, No

f. The null hypothesis is that the population means are all equal.

Yes, No

g. The null hypothesis is that the population means are all equal.

Yes, No

h. The null hypothesis is that the population means are all equal.

Yes, No

i. The null hypothesis is that the population means are all equal.

Yes, No

j. The null hypothesis is that the population means are all equal.

Yes, No

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Shasha Hu



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