

[← Back to assignment list](#)

[← Project 2](#)

Final Exam

Test in Final Exam

Your final grade is

90/100, B+ (90%)

For more workflow details, see your [Full history](#) ▼

For the full assignment information, read the [instructions](#) ▼

You submitted this attempt **on time** on **Saturday, May 6 at 9:20 PM**

You spent **39 minutes** taking the attempt

[Collapse all responses](#) ^

Section 1

6/6

1) MatchingQuestion (6pts) ^



You selected:

- ✔ Number of shifts per day → quantitative discrete
- ✔ The type of events at the Olympics → qualitative
- ✔ Cooking temperature of pasta → quantitative continuous

6/6

2) MatchingQuestion-2 (6pts) ^



You selected:

- ✓ Sample → Four Vendors
- ✓ Population → All the Vendors
- ✓ Statistic → Average number of packages delivered

8/8

3) MatchingQuestion-3 (8pts) ^



You selected:

- ✓ College students classified academic performance: Excellent, Average, Poor → Ordinal
- ✓ Telephone numbers in a directory → Nominal
- ✓ Cure temperatures for various main dishes → Interval/Ratio
- ✓ A student wellness survey of a middle school students: 1=Well, 2=Ok, 3=Not Well → Ordinal

12/12

4) MatchingQuestion-4 (12pts) ^



You selected:

- ✓ Range → 4
- ✓ Variance → 4.33
- ✓ Standard Deviation → 2.08
- ✓ Mode → None
- ✓ Median → 6

✓ Mean → 5.33

4/4

5) MatchingQuestion-5 (4pts) ^



You selected:

- | | |
|---|-----------------------|
| ✓ Students score high on an easy test. | → Skewed to the Left |
| ✓ Most of the wealth in the world belongs to only 1% of the population. | → Skewed to the Right |

12/12

6) MatchingQuestion-6 (12pts) ^

E = EVEN NUMBERS BELOW 7



You selected:

- | | |
|----------------|-----------------------------|
| ✓ S = | → {1,2,3,4,5,6,7,8,9,10,11} |
| ✗ P(O and E) = | → 0.10 |
| ✗ P(O E) = | → 0.27 |
| ✓ E = | → {2,4,6} |
| ✓ O = | → {1,3,5,7,9,11} |
| ✓ P(O) = | → 0.55 |
| ✗ P(E) = | → 0.81 |

Answer key:

- | | |
|--------------|-----------------------------|
| S = | → {1,2,3,4,5,6,7,8,9,10,11} |
| P(O and E) = | → 0.81 |
| P(O E) = | → 0.0 |
| E = | → {2,4,6} |
| O = | → {1,3,5,7,9,11} |
| P(O) = | → 0.55 |
| P(E) = | → 0.27 |

4/4

7) MatchingQuestion-7 (4pts) ^



You selected:

- ✓ Z-Score for a bulb with a bulb-life of 65 hours → -1.25
- ✓ Probability of a bulb's life lower than 65 hours. → 10.60%

2/2

8) MultipleChoiceQuestion (2pts) ^



- ☐ 6,700 to 7,200
- ✓ ☒ 6,764 to 7,236
- ☐ 6,664 to 7,036

0/2

9) MultipleChoiceQuestion-2 (2pts) ^



- ☒ ☐ Dependent
- ☐ One Sample
- ✗ ☒ Independent

2/2

10) MultipleChoiceQuestion-3 (2pts) ^



$$\sigma_{ab} = \sqrt{\frac{s_A^2}{N_A - 1} + \frac{s_B^2}{N_B - 1}}$$



$$\sigma_{ab} = \sqrt{\frac{s^2}{N_A - 1} + \frac{s^2}{N_B - 1}}$$

2/2

11) MultipleChoiceQuestion-4 (2pts) ^



$$df = (r - 1)(c - 1)$$



$$df = (r * c) / g$$



$$df = c - 1$$



$$df = n * p$$

2/2

12) MultipleChoiceQuestion-5 (2pts) ^



Fail to reject



Reject

2/2

13) MultipleChoiceQuestion-6 (2pts) ^



☒ False

☐ True

12/12

14) MatchingQuestion-8 (12pts) ^



You selected:

- ☒ Sum of Squares of Total → 220
- ☒ F-Critical → 5.29
- ☒ Degrees of Freedom Within Groups → 16
- ☒ F → 2
- ☒ Sum of Squares Within Groups → 160
- ☒ MS Between Groups → 20

8/8

15) MatchingQuestion-9 (8pts) ^



You selected:

- ☒ Gender, GPA → Independent t-test
- ☒ Gender, Race (Black, White) → Chi-Square
- ☒ Reaction Time, Salt Concentration → Correlation
- ☒ Race (Black, Asian, Indian), ACT Score → ANOVA

16) Matching Question-10 (16pts) ^

**You selected:**

- | | |
|---------------------------|----------------------|
| ✓ X and Y vary indirectly | ➔ Negative Slope |
| ✗ Equal Variances | ➔ Homoscedasticity |
| ✓ Chi-Square Independence | ➔ Two Variables |
| ✗ Overestimated | ➔ Positive Residual |
| ✓ Two Sample t-test | ➔ Independent t-test |
| ✓ X and Y vary directly | ➔ Positive Slope |
| ✗ Underestimated | ➔ Negative Residual |
| ✗ Equal Distances | ➔ Homogeneity |

Answer key:

- | | |
|-------------------------|----------------------|
| X and Y vary indirectly | ➔ Negative Slope |
| Equal Variances | ➔ Homogeneity |
| Chi-Square Independence | ➔ Two Variables |
| Overestimated | ➔ Negative Residual |
| Two Sample t-test | ➔ Independent t-test |
| X and Y vary directly | ➔ Positive Slope |
| Underestimated | ➔ Positive Residual |
| Equal Distances | ➔ Homoscedasticity |

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