Statistics Lab Submission Highlights

By Rose Alcolea

✓ **Congratulations! You passed!**

TO PASS 75% or higher

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Practice quiz on Sets

TOTAL POINTS 3

1. Let $A = \{1, 3, 5\}$. Is the following statement: $3 \in A$. True or false? **1 / 1 point**

- (•) True
- ( ) False

✓ **Correct**

The symbol $\in$ stands for "is an element of" and it is true that 3 is an element of A. The other two elements of A are 1 and 5.

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Practice quiz on the Number Line, including Inequalities

TOTAL POINTS 8

1. Which of the following real numbers is ***not*** an integer? **1 / 1 point**

- (●) 4.3
- ( ) 0
- ( ) 7
- ( ) -3

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Practice quiz on Simplification Rules and Sigma Notation

TOTAL POINTS 6

1. Which of the numbers below is equal to the following summation: $\sum_{i=1}^{3} i^2$? 1 / 1 point

- 30
- 14
- 1
- 9

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Graded quiz on Sets, Number Line, Inequalities, Simplification, and Sigma Notation

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1. Let $B = \{3, 5, 10, 11, 14\}$. Is the following statement true or false: $3 \notin B$

1 / 1 point

- ○ True
- ◉ False

✓ **Correct**

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Practice quiz on the Cartesian Plane

TOTAL POINTS 5

1. Which of the following points in the Cartesian Plane is on the y-axis? **1 / 1 point**

- ○ $(1, 1)$
- ◉ $(0, -5)$
- ○ $(5, 0)$
- ○ $(-5, 0)$

✓ **Correct**

The y-axis is defined to be all points in the Cartesian plane with zero as x

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Practice quiz on Types of Functions

TOTAL POINTS 6

1. Suppose that $A = \{1, 2, 10\}$ and $B = \{4, 8, 40\}$. Which of the following formulae do ***not*** define a function $f : A \to B$? **1 / 1 point**

- ○ $f(1) = 4, f(2) = 40$, and $f(10) = 8$.
- ○ $f(a) = 4a$, for each $a \in A$
- ○ $f(1) = 4, f(2) = 4$, and $f(10) = 4$.
- ◉ $f(1) = 5, f(2) = 8$, and $f(10) = 40$.

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Graded quiz on Cartesian Plane and Types of Function

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1. Which of the following points in the Cartesian Plane have positive x-coordinate and negative y -coordinate? **1 / 1 point**

- ○ $(-4, 5)$
- ○ $(5, 7)$
- ○ $(0, 0)$
- ◉ $(7, -1)$

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Practice quiz onTangent Lines to Functions

TOTAL POINTS 2

1. Suppose that $f : \mathbb{R} \to \mathbb{R}$ is a function. Which of the following expressions corresponds to $f'(2)$, the slope of the tangent line to the graph of $f(x)$ at $x = 2$? **1 / 1 point**

- $f'(2) = \lim_{h \to 0} \frac{f(a+h) - f(a)}{h}$
- $f'(2) = mx + b$
- $f'(2) = 2$
- $f'(2) = \lim_{h \to 0} \frac{f(2+h) - f(2)}{h}$

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Practice quiz on Exponents and Logarithms

TOTAL POINTS 12

1. Re write the number $784 = 2 \times 2 \times 2 \times 2 \times 7 \times 7$ using exponents. **1 / 1 point**

- (selected) $(2^4)(7^2)$
- $(16^4)(49^2)$
- $(2 \times 7)^6$
- $(2^6)(7^6)$

✓ **Correct**

For this type of problem, count the number of times each relevant factor appears in

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Retake the assignment in **7h 46m**

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Graded quiz on Tangent Lines to Functions, Exponents and Logarithms

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1. Convert $\frac{1}{49}$ to exponential form, using 7 as the factor. **1 / 1 point**

- ○ (7^2)
- ◉ 7^{-2}
- ○ 49^{-1}

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Practice quiz on Probability Concepts

TOTAL POINTS 9

1. If $x =$ "It is raining," what is $\sim (\sim x)$? **1 / 1 point**

- ○ "It is always raining"
- ○ "It is never raining"
- ◉ "It is raining"
- ○ "It is not raining"

✓ **Correct**

The second negation cancels out the first one

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Practice quiz on Problem Solving

TOTAL POINTS 9

1. I am given the following 3 joint probabilities: **1 / 1 point**

p(I am leaving work early, there is a football game that I want to watch this afternoon) = .1

p(I am leaving work early, there is not a football game that I want to watch this afternoon) = .05

p(I am not leaving work early, there is not a football game that I want to watch this afternoon) = .65

Practice quiz on Bayes Theorem and the Binomial Theorem

TOTAL POINTS 9

1. A jewelry store that serves just one customer at a time is concerned about the safety of its isolated customers. **1 / 1 point**

   The store does some research and learns that:

   - 10% of the times that a jewelry store is robbed, a customer is in the store.
   - A jewelry store has a customer on average 20% of each 24-hour day.
   - The probability that a jewelry store is being robbed (anywhere in the world) is 1 in 2 million.

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Probability (basic and Intermediate) Graded Quiz

LATEST SUBMISSION GRADE

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1. What additional statement, added to the three below, forms a probability distribution? **1 / 1 point**

(1) I missed only my first class today

(2) I missed only my second class today

(3) I missed both my first and second class today