

✓ **Congratulations! You passed!**
TO PASS 75% or higher

Keep Learning

GRADE
100%

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

- ☐ False
☒ True

✓ **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.

2. Let $B = \{-1, -2, -3\}$. Compute the cardinality $|B|$ of B :

1 / 1 point

← Practice quiz on the Number Line, including Inequalities
Practice Quiz • 25 min

✓ **Congratulations! You passed!**
TO PASS 75% or higher

Keep Learning

GRADE
100%

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

- ☐ 7
- ☐ -3
- ☒ 4.3
- ☐ 0

✓ **Correct**

4.3 is a decimal that is between two consecutive integers (4 and 5).

← Practice quiz on Simplification Rules and Sigma Notation
Practice Quiz • 20 min

✓ **Congratulations! You passed!**
TO PASS 75% or higher

Keep Learning

GRADE
100%

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

✓ Correct

✓ **Congratulations! You passed!**

TO PASS 75% or higher

Keep Learning

GRADE
76.92%

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

LATEST SUBMISSION GRADE

76.92%

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

1 / 1 point

☒ False

☐ True

✓ **Correct**

The symbol \notin stands for "is not an element of." Since 3 is an element of the set B , the given statement is not true.



Practice quiz on the Cartesian Plane

Practice Quiz • 15 min



Congratulations! You passed!

TO PASS 75% or higher

Keep Learning

GRADE
100%

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

- ☒ $(0, -5)$
- ☐ $(-5, 0)$
- ☐ $(1, 1)$
- ☐ $(5, 0)$



Correct

The y -axis is defined to be all points in the Cartesian plane with zero as x -coordinate. The point $(0, -5)$ meets that requirement.

← Practice quiz on Types of Functions
Practice Quiz • 20 min

✓ **Congratulations! You passed!**
TO PASS 75% or higher

Keep Learning

GRADE
100%

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 $f : A \rightarrow B$?

1 / 1 point

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

✓ **Correct**

A function $f : A \rightarrow B$ is a rule which assigns an element $f(a) \in B$ to each $a \in A$. In this case,

✓ **Congratulations! You passed!**
TO PASS 75% or higher

Keep Learning

GRADE
92.30%

Graded quiz on Cartesian Plane and Types of Function

LATEST SUBMISSION GRADE

92.3%

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

- ☐ (0, 0)
- ☐ (-4, 5)
- ☐ (5, 7)
- ☒ (7, -1)

Practice quiz onTangent Lines to Functions
Practice Quiz • 10 min

✓ **Congratulations! You passed!**
TO PASS 75% or higher

Keep Learning

GRADE
100%

Practice quiz onTangent Lines to Functions

TOTAL POINTS 2

1. Suppose that $f : \mathbb{R} \rightarrow \mathbb{R}$ 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

☐ $f'(2) = mx + b$

☐ $f'(2) = 2$

☒ $f'(2) = \lim_{h \rightarrow 0} \frac{f(2+h) - f(2)}{h}$

☐ $f'(2) = \lim_{h \rightarrow 0} \frac{f(a+h) - f(a)}{h}$

✓ Correct

Practice quiz on Exponents and Logarithms
Practice Quiz • 40 min

✓ **Congratulations! You passed!**
TO PASS 75% or higher

Keep Learning

GRADE
91.66%

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

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

✓ **Correct**

For this type of problem, count the number of times each relevant factor appears in the product. That number is the exponent for that factor.



Graded quiz on Tangent Lines to Functions, Exponents and Logarithms

Graded Quiz • 45 min

Due Dec 6, 11:59 PM PST



Congratulations! You passed!

TO PASS 75% or higher

Keep Learning

GRADE
100%

Graded quiz on Tangent Lines to Functions, Exponents and Logarithms

LATEST SUBMISSION GRADE

100%

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

1 / 1 point

☐ 49^{-1}

☐ $\frac{7}{7^3}$

☐ (7^2)

Practice quiz on Probability Concepts

Practice Quiz • 25 min

✓ **Congratulations! You passed!**
TO PASS 75% or higher

Keep Learning

GRADE
77.77%

Practice quiz on Probability Concepts

TOTAL POINTS 9

1. If $x = \text{"It is raining,"}$ what is $\sim (\sim x)$?

1 / 1 point

- ☐ "It is always raining"
- ☒ "It is raining"
- ☐ "It is not raining"
- ☐ "It is never raining"

✓ Correct

← Practice quiz on Problem Solving
Practice Quiz • 25 min

✓ **Congratulations! You passed!**
TO PASS 75% or higher

Keep Learning

GRADE
88.88%

Practice quiz on Problem Solving

TOTAL POINTS 9

1. I am given the following 3 joint probabilities:

1 / 1 point

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

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

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

What is the probability that there is a football game that I want to watch this afternoon?

☐ .2

← Practice quiz on Bayes Theorem and the Binomial Theorem
Practice Quiz • 25 min

✓ **Congratulations! You passed!**
TO PASS 75% or higher

Keep Learning

GRADE
88.88%

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.



Probability (basic and Intermediate) Graded Quiz

Graded Quiz • 50 min

✓ **Congratulations! You passed!**

TO PASS 80% or higher

Keep Learning

GRADE

83.33%

Probability (basic and Intermediate) Graded Quiz

LATEST SUBMISSION GRADE

83.33%

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

0 / 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

! Incorrect