

Question # 4 of 10 (Start time: 11:03:49 AM, 11 December 2021)

Total Marks: 1

Commutative laws are $A \cup B = B \cup A$ and $A \cap B = B \cap A$.

Select the correct option


[Reload Math Equations](#) Given statement is false. Given statement is true.[Click to Save Answer & Move to Next Question](#)

Question # 4 of 10 (Start time: 11:03:49 AM, 11 December 2021)

Total Marks: 1

Commutative laws are $A \cup B = B \cup A$ and $A \cap B = B \cap A$.

Select the correct option

 Reload Math Equations

Given statement is false.

Given statement is true.

Saving...

Question # 6 of 10 (Start time: 11:04:03 AM, 11 December 2021)

Total Marks: 1

The interval satisfying the inequality $0 \leq x+2 < 3$ is _____

Select the correct option

[Reload Math Equations](#)

- | | |
|----------------------------------|----------|
| <input type="radio"/> | none |
| <input checked="" type="radio"/> | $[-2,1)$ |
| <input type="radio"/> | $(-2,1)$ |
| <input type="radio"/> | $[-2,1]$ |

[Click to Save Answer & Move to Next Question](#)

Question # 7 of 10 (Start time: 11:04:20 AM, 11 December 2021)

Total Marks: 1

If $A = \{1,2,3\}$ and $B = \{3,4,5\}$ then $A \cap B$ is _____.

Select the correct option

[Reload Math Equations](#)

none of these

{3}

{3,4,5}

{1,2,3}

[Click to Save Answer & Move to Next Question](#)

Question # 8 of 10 (Start time: 11:04:25 AM, 11 December 2021)

Total Marks: 1

The distance between 10 and 14 on the real line is _____.

Select the correct option

[Reload Math Equations](#)

- 3
- 4
- 0
- 4

[Click to Save Answer & Move to Next Question](#)

Question # 9 of 10 (Start time: 11:04:38 AM, 11 December 2021)

Total Marks: 1

$$\gcd(31, 15) = \text{-----}$$

Select the correct option

[Reload Math Equations](#)

- | | |
|----------------------------------|------|
| <input checked="" type="radio"/> | 1 |
| <input type="radio"/> | 31 |
| <input type="radio"/> | 15 |
| <input type="radio"/> | none |

[Click to See Answer & Move to Next Question](#)

Question # 1 of 10 (Start time: 11:06:18 AM, 11 December 2021)

Total Marks: 1

The interval satisfying the inequality $0 \leq 2x \leq 3$ is _____.

Select the correct option

[Reload Math Equations](#)

[0,1/3]

(0, 1/3]

none

(0,1/3)

[Click to Save Answer & Move to Next Question](#)

Question # 5 of 10 (Start time: 11:07:12 AM, 11 December 2021)

Total Marks: 1

Identity laws are _____

Select the correct option

[Reload Math Equations](#)

- $A \cup \emptyset = A, A \cap U = A$
- both $A \cup \emptyset = A, A \cap U = A$ and $A \cup U = U, A \cap \emptyset = \emptyset$
- $A \cup U = U, A \cap \emptyset = \emptyset$
- none of these

[Click to Save Answer & Move to Next Question](#)

Question # 6 of 10 (Start time: 11:07:39 AM, 11 December 2021)

Total Marks: 1

If a and b are positive, _____

Select the correct option

[Reload Math Equations](#)then $a+b$ is positive and ab is negative.then $a+b$ is negative and ab is negative.then $a+b$ is positive and ab is positive.then $a+b$ is negative and ab is positive.[Click to Save Answer & Move to Next Question](#)

Question # 7 of 10 (Start time: 11:07:51 AM, 11 December 2021)

Total Marks: 1

Real numbers cannot be represented as a point on a straight line.

Select the correct option

[Reload Math Equations](#)

True



False

[Click to Save Answer & Move to Next Question](#)

Question # 9 of 10 (Start time: 11:08:23 AM, 11 December 2021)

Total Marks: 1

A set that contains the elements present in the universal set but not in set A is called the complement of set A .

Select the correct option

[Reload Math Equations](#)

- | | |
|----------------------------------|-------|
| <input type="radio"/> | False |
| <input checked="" type="radio"/> | True |

[Click to Save Answer & Move to Next Question](#)

Question # 10 of 10 (Start time: 11:08:54 AM, 11 December 2021)

Total Marks: 1

If two sets A and B are given, then the set consisting of all the elements of A and B is called intersection of A and B.

Select the correct option

[Reload Math Equations](#)

True

False

[Click to Save Answer & Move to Next Question](#)

Question # 2 of 10 (Start time: 11:10:23 AM, 11 December 2021)

Total Marks: 1

Those real numbers which cannot be represented as the ratio of integers, are called _____.

Select the correct option

 Reload Math Equations

irrational numbers



rational numbers



Saving...



Question # 3 of 10 (Start time: 11:10:33 AM, 11 December 2021)

Total Marks: 1

Let a and b be real numbers. Then $|a + b| \geq ||a| - |b||$.

Select the correct option

[Reload Math Equations](#)

- | | |
|----------------------------------|-------|
| <input type="radio"/> | False |
| <input checked="" type="radio"/> | True |

[Click to Save Answer & Move to Next Question](#)

Question # 4 of 10 (Start time: 11:10:38 AM, 11 December 2021)

Total Marks: 1

Let a and b be real numbers. Then $|a-b| \leq$ _____

Select the correct option

[Reload Math Equations](#) $|a|-|b|$  $|a||b|$ 

none

 $|a|+|b|$ [Click to Save Answer & Move to Next Question](#)

Question # 5 of 10 (Start time: 11:12:24 AM, 11 December 2021)

Total Marks: 1

Cardinality of set $\{\{a,b\}\}$ is _____.

Select the correct option

[Reload Math Equations](#)

- | | |
|----------------------------------|---------------|
| <input type="radio"/> | 1 |
| <input checked="" type="radio"/> | 2 |
| <input type="radio"/> | none of these |
| <input type="radio"/> | 0 |

[Click to Save Answer & Move to Next Question](#)

Question # 7 of 10 (Start time: 11:13:44 AM, 11 December 2021)

Total Marks: 1

If $A = \{1,2,3\}$ and $B = \{3,4,5\}$ then $A \cup B$ is _____

Select the correct option

[Reload Math Equations](#) {1,2,3,4} none of these {3,4,5} {1,2,3}[Click to Save Answer & Move to Next Question](#)

Question # 8 of 10 (Start time: 11:13:57 AM, 11 December 2021)

Total Marks: 1

Idempotent laws are $A \cup A = A$ and $A \cap A = A$.

Select the correct option

[Reload Math Equations](#)

False



True

[Click to Save Answer & Move to Next Question](#)

Question # 9 of 10 (Start time: 11:14:15 AM, 11 December 2021)

Total Marks: 1

If p is a prime number and p does not divide a , then $\text{gcd}(p, a) = \text{-----}$

Select the correct option

[Reload Math Equations](#)

- | | |
|----------------------------------|------|
| <input checked="" type="radio"/> | 1 |
| <input type="radio"/> | none |
| <input type="radio"/> | a |
| <input type="radio"/> | p |

[Click to Give Answer & Move to Next Question](#)

Question # 10 of 10 (Start time: 11:14:33 AM, 11 December 2021)

Total Marks: 1

Suppose A and B are finite sets. Then $n(A \setminus B) = n(A) - n(A \cap B)$.

Select the correct option

[Reload Math Equations](#) Given statement is false. Given statement is true.[Click to Save Answer & Move to Next Question](#)

Question # 2 of 10 (Start time: 11:16:04 AM, 11 December 2021)

Total Marks: 1

The set \mathbb{R} of real numbers is complete.

Select the correct option

[Reload Math Equations](#)

False



True

[Click to Save Answer & Move to Next Question](#)

Question # 3 of 10 (Start time: 11:16:13 AM, 11 December 2021)

Total Marks: 1

Real numbers cannot be represented as a point on a straight line.

Select the correct option

[Reload Math Equations](#)

False



True

[Click to Save Answer & Move to Next Question](#)

Question # 4 of 10 (Start time: 11:16:18 AM, 11 December 2021)

Total Marks: 1

If p is a prime number and p does not divide a , then $\gcd(p, a) = \text{-----}$.

Select the correct option

[Reload Math Equations](#)

- | | |
|----------------------------------|------|
| <input type="radio"/> | a |
| <input type="radio"/> | none |
| <input checked="" type="radio"/> | 1 |
| <input type="radio"/> | p |

[Click to Save Answer & Move to Next Question](#)

Question # 5 of 10 (Start time: 11:16:24 AM, 11 December 2021)

Total Marks: 1

If $A = \{1,2,3\}$ and $B = \{3,4,5\}$ then $A \cap B$ is _____.

Select the correct option

[Reload Math Equations](#) {3} {1,2,3} none of these {3,4,5}[Click to Save Answer & Move to Next Question](#)

Question # 6 of 10 (Start time: 11:16:30 AM, 11 December 2021)

Total Marks: 1

Two distinct points are on one and only one line.

Select the correct option

[Reload Math Equations](#)

True



False

[Click to Save Answer & Move to Next Question](#)

Question # 7 of 10 (Start time: 11:16:56 AM, 11 December 2021)

Total Marks: 1

The interval satisfying the inequality $0 \leq x+2 < 3$ is _____

Select the correct option

[Reload Math Equations](#) none [-2,1) [-2,1] (-2,1)[Click to Save Answer & Move to Next Question](#)

Question # 8 of 10 (Start time: 11:17:06 AM, 11 December 2021)

Total Marks: 1

Let A be a set of real numbers. If for every $x \in A$, $|x| \leq M$, where M is a real number, then _____.

Select the correct option

[Reload Math Equations](#) A is unbounded A is bounded[Click to Save Answer & Move to Next Question](#)

Question # 9 of 10 (Start time: 11:17:18 AM, 11 December 2021)

Total Marks: 1

The set \mathbb{Q} of rational numbers is complete.

Select the correct option

[Reload Math Equations](#)

True



False

[Click to Save Answer & Move to Next Question](#)

Question # 10 of 10 (Start time: 11:17:29 AM, 11 December 2021)

Total Marks: 1

Two distinct lines cannot contain more than one point in common.

Select the correct option

[Reload Math Equations](#) Given statement is false. Given statement is true.[Click to Save Answer & Move to Next Question](#)

Question # 2 of 10 (Start time: 11:18:45 AM, 11 December 2021)

Total Marks: 1

Cardinality of set $\{\{a,b\}\}$ is _____.

Select the correct option

[Reload Math Equations](#)

- | | |
|----------------------------------|---------------|
| <input checked="" type="radio"/> | 1 |
| <input type="radio"/> | 0 |
| <input checked="" type="radio"/> | 2 |
| <input type="radio"/> | none of these |

[Click to Save Answer & Move to Next Question](#)

Question # 2 of 10 (Start time: 11:18:45 AM, 11 December 2021)

Total Marks: 1

Cardinality of set $\{\{a,b\}\}$ is _____.

Select the correct option

[Reload Math Equations](#)

- | | |
|----------------------------------|---------------|
| <input type="radio"/> | 1 |
| <input type="radio"/> | 0 |
| <input checked="" type="radio"/> | 2 |
| <input type="radio"/> | none of these |

Saving...

Question # 4 of 10 (Start time: 11:18:56 AM, 11 December 2021)

Total Marks: 1

The distance between -2 and 14 on the real line is _____.

Select the correct option

[Reload Math Equations](#)

- 16
- 14
- 16
- 15

[Click to Save Answer & Move to Next Question](#)

Question # 5 of 10 (Start time: 11:19:01 AM, 11 December 2021)

Total Marks: 1

If two sets A and B are given, then the set consisting of all the elements of A and B is called intersection of A and B.

Select the correct option

[Reload Math Equations](#)

<input checked="" type="radio"/>	False
<input type="radio"/>	True

Saving...

Question # 8 of 10 (Start time: 11:19:40 AM, 11 December 2021)

Total Marks: 1

If $A = \{1,2,3\}$ and $B = \{3,4,5\}$ then $A \cap B$ is _____.

Select the correct option

[Reload Math Equations](#)

{3}



none of these



{3,4,5}



{1,2,3}

Saving...

Question # 10 of 10 (Start time: 11:19:55 AM, 11 December 2021)

Total Marks: 1

Which of the following set is bounded?

Select the correct option

[Reload Math Equations](#) $B = \{x : x < 3\}$ $A = \{x : x > 2\}$

none

 $C = \{3, 4, 5\}$

Saving...

Question # 10 of 10 (Start time: 11:19:55 AM, 11 December 2021)

Total Marks: 1

Which of the following set is bounded?

Select the correct option

[Reload Math Equations](#) $B = \{x : x < 3\}$  $A = \{x : x > 2\}$ 

none

 $C = [3, 4.5]$ [Click to Save Answer & Move to Next Question](#)

Question # 1 of 10 (Start time: 11:21:40 AM, 11 December 2021)

Total Marks: 1

Idempotent laws are $A \cup A = A$ and $A \cap A = A$.

Select the correct option

[Reload Math Equations](#)

True



False



Saving...

Question # 2 of 10 (Start time: 11:21:45 AM, 11 December 2021)

Total Marks: 1

The set \mathbb{Q} of rational numbers is complete.

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	False
<input checked="" type="radio"/>	True

Saving...

Question # 4 of 10 (Start time: 11:21:55 AM, 11 December 2021)

Total Marks: 1

Identity laws are



Select the correct option

[Reload Math Equations](#) $A \cup U = U, A \cap \emptyset = \emptyset$ $A \cup \emptyset = A, A \cap U = A$ both $A \cup \emptyset = A, A \cap U = A$ and $A \cup U = U, A \cap \emptyset = \emptyset$

none of these

Saving...

Question # 6 of 10 (Start time: 11:22:04 AM, 11 December 2021)

Total Marks: 1

The interval satisfying the inequality $|x| < -3$ is _____

Select the correct option

[Reload Math Equations](#)

- [-3,3]
- none
- [-3,3]
- (-3,3)

Saving...

Question # 7 of 10 (Start time: 11:22:08 AM, 11 December 2021)

Total Marks: 1

Let a and b be real numbers. Geometrically, $a < b$ if and only if _____.

Select the correct option

[Reload Math Equations](#) the point a lies to the left of the point b the point a lies to the right of the point b [Click to Save Answer & Move to Next Question](#)

Question # 2 of 10 (Start time: 11:21:45 AM, 11 December 2021)

Total Marks: 1

The set \mathbb{Q} of rational numbers is complete.

Select the correct option

[Reload Math Equations](#)

False



True



Saving...

Question # 3 of 10 (Start time: 11:21:50 AM, 11 December 2021)

Total Marks: 1

If $A = \{1,2,3\}$ and $B = \{3,4,5\}$ then $A \cap B$ is _____.

Select the correct option

[Reload Math Equations](#)

none of these

 $\{1,2,3\}$  $\{3\}$  $\{3,4,5\}$ [Click to Save Answer & Move to Next Question](#)

Question # 6 of 10 (Start time: 11:22:04 AM, 11 December 2021)

Total Marks: 1

The interval satisfying the inequality $|x| < -3$ is _____

Select the correct option

[Reload Math Equations](#)

- $[-3,3]$
- none
- $[-3,3]$
- $(-3,3)$

[Click to Save Answer & Move to Next Question](#)

Question # 7 of 10 (Start time: 11:22:08 AM, 11 December 2021)

Total Marks: 1

Let a and b be real numbers. Geometrically, $a < b$ if and only if _____.

Select the correct option

[Reload Math Equations](#) the point a lies to the left of the point b the point a lies to the right of the point b [Click to Save Answer & Move to Next Question](#)

Question # 8 of 10 (Start time: 11:22:58 AM, 11 December 2021)

Total Marks: 1

The interval satisfying the inequality $0 \leq x+2 < 3$ is _____

Select the correct option

[Reload Math Equations](#)

- none
- $[-2]$
- $[-2)$
- (-2)

[Click to Save Answer & Move to Next Question](#)

Question # 9 of 10 (Start time: 11:23:06 AM, 11 December 2021)

Total Marks: 1

A group or collection of well-defined objects is called a set.

Select the correct option

[Reload Math Equations](#)

False

True

[Click to Save Answer & Move to Next Question](#)

Question # 1 of 10 (Start time: 11:15:59 AM, 11 December 2021)

Total Marks: 1

Which of the following set is unbounded?

Select the correct option

[Reload Math Equations](#)

- | | |
|----------------------------------|--------------------------|
| <input type="radio"/> | none |
| <input checked="" type="radio"/> | $C = \{1, 2, 3, \dots\}$ |
| <input type="radio"/> | $B = \{x : x \leq 3\}$ |
| <input type="radio"/> | $A = \{x : x < 4\}$ |

Saving...

Question # 9 of 10 (Start time: 11:19:47 AM, 11 December 2021)

Total Marks: 1

Those real numbers which cannot be represented as the ratio of integers, are called _____.

Select the correct option

[Reload Math Equations](#) irrational numbers rational numbers[Click to Save Answer & Move to Next Question](#)

Question # 2 of 10 (Start time: 11:21:45 AM, 11 December 2021)

Total Marks: 1

The set \mathbb{Q} of rational numbers is complete.

Select the correct option

[Reload Math Equations](#)

False



True

[Click to Save Answer & Move to Next Question](#)