

CBT Class-VII Nov'2023

MATHMATICS

Q1. Which of the following rational number is not equivalent to $7/4$

Ans: d) $7/8$

Explanation: $7/4 = 7 \times 2 / 4 \times 2$ $7/4 = 7 \times 2 / 4 \times 2$ $14/8 \neq 7/8$

Q2. 0 is not

Ans: c) Whole number

Explanation: 0 is not a natural number. It is a whole number. Natural numbers only include positive integers

Q3. The given property $a + b = b + a$ is known as

Ans: a) Commutative property

Explanation: Commutative property says that the numbers can be added in any order, and you will still get the same answer. $a+b = b+a$ is a clear example of the commutative property.

Q4. Find the multiplicative inverse of 13

Ans: d) $1/13$

Explanation: The multiplicative inverse of 13 is $(13)^{-1} = 1/13$

Q 5. What is the product of $3/10$ and $5/6$?

Ans: d) $1/4$

Explanation: The product of $3/10$ and $5/6$: $\Rightarrow 3/10 \times 5/6 \Rightarrow (3 \times 5)/(10 \times 6) \Rightarrow 15/60 \Rightarrow 1/4$

Q 6. The numbers used for counting objects are called

Ans : a) Natural numbers

Explanation: Counting objects are always positive and more than zero

Q 7. What should be subtracted from $-2/3$ to get -1 ?

Ans: a) $1/3$

Explanation: Let x be subtracted from $-2/3$. $-2/3 - x = -1$ $-x = -1 + 2/3$ $-x = -1/3$ $x = 1/3$

Q8. The additive identity of any rational number is

Ans: a) 0

Explanation: The rational number that does not have a reciprocal is 0 because the reciprocal of 0 is undefined.

Q9.1 is the multiplicative identity for.....

Ans: d) All of the above

Explanation: We know that whole numbers are a subset of integers which in turn are a subset of rational numbers. Also, 1 is the multiplicative identity for rational numbers because the product of 1 and any rational number is the rational number itself. Thus, 1 is the multiplicative identity for whole numbers, integers, and rational numbers.

Q10. If a, b and c are whole numbers, then $a+(b+c) = (a+b)+c$. This property is called

Ans: a) Associative property

Explanation: $a+(b+c) = (a+b)+c$ is associative property of whole numbers.