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Class :-06(Maths)

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**1. Which of the following will not represent zero:**

(a)  $1 + 0$

(b)  $0 \times 0$

(c)  $0 / 2$

(d)  $(10 - 10) / 2$

**Solutions:**

(a)  $1 + 0 = 1$

Hence, it does not represent zero

(b)  $0 \times 0 = 0$

Hence, it represents zero

(c)  $0 / 2 = 0$

Hence, it represents zero

(d)  $(10 - 10) / 2 = 0 / 2 = 0$

Hence, it represents zero

**2. If the product of two whole numbers is zero, can we say that one or both of them will be zero? Justify through examples.**

**Solutions:**

If product of two whole numbers is zero, definitely one of them is zero

Example:  $0 \times 3 = 0$  and  $15 \times 0 = 0$

If product of two whole numbers is zero, both of them may be zero

Example:  $0 \times 0 = 0$

Yes, if the product of two whole numbers is zero, then both of them will be zero

**3. If the product of two whole numbers is 1, can we say that one or both of them will be 1? Justify through examples.**

**Solutions:**

If the product of two whole numbers is 1, both the numbers should be equal to 1

Example:  $1 \times 1 = 1$

But  $1 \times 5 = 5$

Hence, its clear that the product of two whole numbers will be 1, only in situation when both numbers to be multiplied are 1

**4. Find using distributive property:**

(a)  $728 \times 101$

(b)  $5437 \times 1001$

(c)  $824 \times 25$

(d)  $4275 \times 125$

(e)  $504 \times 35$