

Day: Wednesday
Date: April 8, 2020

Mathematics

Class - VII

Chapter - 1 continue ---
Chapter name - Integers

Introduction of chapter

1. Multiplication of two integers :

For any two integers
A and B, $A \times B$ is also integer.

For ex. = 3, 5 are integers

$\Rightarrow [3 \times 5 = 15]$ is also integer.

$$\begin{bmatrix} + \times + = + \\ - \times - = + \\ - \times + = - \end{bmatrix}$$

2. Distributive property :

For any integers A, B and C

$$\Rightarrow A \times (B + C) = A \times B + A \times C$$

For eg. : 8, 4 and 2 are three integers

$$8 \times [4 + 2] = 8 \times 4 + 8 \times 2$$

$$L.H.S = 8 \times 6 = 48$$

$$R.H.S = 32 + 16 = 48$$

$$\Rightarrow L.H.S = R.H.S$$

3. Division of Integers :

We know that division
is the inverse operation of multiplication.

For eg.

$$3 \times 5 = 15$$

$$\text{So, } 15 \div 3 = 5$$

$$15 \div 5 = 3$$

$$\begin{bmatrix} (-a) \div (-b) = a \div b \\ a \div b = a \div b \\ (-a) \div b = -[a \div b] \end{bmatrix}$$

Exercise-1.1

Ques. 1 In a quiz, positive marks are given for correct answer and negative marks are given for incorrect answers. If Jack's scores in five rounds were 25, -5, -10, 15 and 10. What was his total at the end?

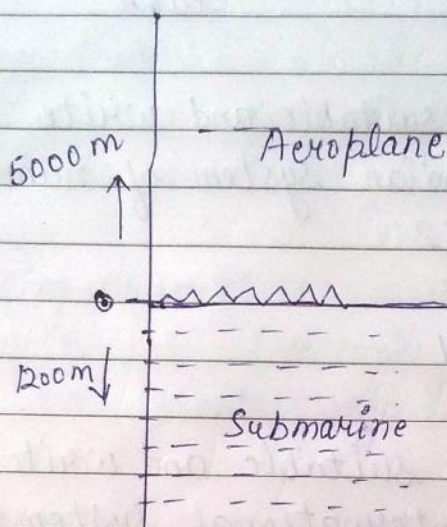
Ans. Jack's scores in 5 successive rounds = 25, -5, -10, 15, 10
 Total marks = $25 + (-5) + (-10) + 15 + 10$
 $25 - 15 + 25$
 $50 - 15$
 $= 35$ marks

Ques. At Srinagar temperature was -5°C on Monday and then it dropped by 2°C on Tuesday. What was the temperature of Srinagar on Tuesday? On Wednesday, it rose by 4°C . What was the temperature on this day?

Ans. On Monday, temp. at Srinagar = -5°C
 On Tuesday, temp. dropped = -2°C
 temp. On Tuesday = $-5^{\circ}\text{C} - 2^{\circ}\text{C} = -7^{\circ}\text{C}$
 On Wednesday, temp. rose up = 4°C
 temp. on Wednesday = $-7^{\circ}\text{C} + 4^{\circ}\text{C}$
 $= -3^{\circ}\text{C}$

Practice Questions

Ques. 1 A plane is flying at the height of 5000 m above the sea level. At a particular point, it is exactly above a submarine floating 1200 m below the sea level. What is the vertical distance between them?



Ques. 2. Mohan deposits ₹ 2000 in his bank account and withdraws ₹ 1642 from it, the next day. If withdrawal of amount from the account is represented by a negative integers, then how will you represent the amount deposited? Find the balance in Mohan's accounts after the withdrawal?