

MATHEMATICS Std VII

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ASSIGNMENT: Integers

General instructions: Students please copy down the Topics in your notebook from YouTube videos

Exercise 1.2

Q1. Write a pair of Integers whose:

(ii) difference is $- 5$

Ans. $- 2, 3$

$$(- 2 - 3 = - 5)$$

Q4. In a quiz, team A scored

$- 30, 20, 0$ and team B scored $20, 0, - 30$ in three successive rounds. Which team scored more?

Can We say that we can add Integers in any order?

Ans. Score of team A $= - 30 + 20 + 0 = - 10$

Score of team B $= 20 + 0 + (- 30) = 20 + 0 - 30 = - 10$

so , score of both team are same.

Yes, we can add Integers in any Order

Homework; Question no. 1 (i), (iii), 2, and 5

Exercise 1.3

Q1. Find the following products:

$$(v) (- 1) \times (- 2) \times (- 3) \times 4 = (- 1 \times - 2) \times (- 3 \times 4) = 2 \times - 12 = - 24$$

Q3. Using suitable properties, evaluate the following:

$$(iv) 15 \times (- 25) \times (- 4) \times (- 10)$$

Ans. $(- 25) \times (- 4) \times (- 10) \times 15$

$$(- 25 \times - 4) \times (- 10 \times 15)$$

$$100 \times (- 150)$$

$$- 15000$$

$$(vii) (- 47) \times 102$$

Ans. $(- 47) \times (100 + 2)$

Using distributive law of multiplication

$$= (- 47) \times 100 + (- 47 \times 2)$$

$$= - 4700 - 94$$

$$= - 4794$$

Q5. A certain freezing process requires that room temperature be lowered from 32°C at the rate of 5°C every hour. What will be the room temperature 8 hours after the freezing process begins?

Solution:

Original temperature = 32°C

Rate of lowering the temperature = 5°C per hour

After 8 hours, the freezing process begins = $32^{\circ}\text{C} - (5^{\circ}\text{C} \times 8)$

$$= 32^{\circ}\text{C} - 40^{\circ}\text{C}$$

$$= -8^{\circ}\text{C}$$

Homework:

Question no. 1,2,3,6 and 7 of Exercise 1.3