



SACRED HEART SCHOOL

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Maths

Class – VII

EXERCISE 1.2

- Write down a pair of integers whose:
(a) sum is -7 (b) difference is -10 (c) sum is 0
- (a) Write a pair of negative integers whose difference gives 8 .
(b) Write a negative integer and a positive integer whose sum is -5 .
(c) Write a negative integer and a positive integer whose difference is -3 .
- In a quiz, team A scored $-40, 10, 0$ and team B scored $10, 0, -40$ in three successive rounds. Which team scored more? Can we say that we can add integers in any order?
- Fill in the blanks to make the following statements true:
 - $(-5) + (-8) = (-8) + (\dots\dots\dots)$
 - $-53 + \dots\dots = -53$
 - $17 + \dots\dots\dots = 0$
 - $[13 + (-12)] + (\dots\dots\dots)$
 $\dots\dots\dots = 13 + [(-12) + (-7)]$
 - $(-4) + [15 + (-3)] = [-4 + 15] + \dots\dots\dots$



EXERCISE 1.3

1. Find each of the following products:

- | | |
|---|--|
| (a) $3 \times (-1)$ | (b) $(-1) \times 225$ |
| (c) $(-21) \times (-30)$ | (d) $(-316) \times (-1)$ |
| (e) $(-15) \times 0 \times (-18)$ | (f) $(-12) \times (-11) \times (10)$ |
| (g) $9 \times (-3) \times (-6)$ | (h) $(-18) \times (-5) \times (-4)$ |
| (i) $(-1) \times (-2) \times (-3) \times 4$ | (j) $(-3) \times (-6) \times (-2) \times (-1)$ |

2. Verify the following:

- (a) $18 \times [7 + (-3)] = [18 \times 7] + [18 \times (-3)]$
(b) $(-21) \times [(-4) + (-6)] = [(-21) \times (-4)] + [(-21) \times (-6)]$

3. (i) For any integer a , what is $(-1) \times a$ equal to?

(ii) Determine the integer whose product with (-1) is

- (a) -22 (b) 37 (c) 0

4. Starting from $(-1) \times 5$, write various products showing some pattern to show $(-1) \times (-1) = 1$.

5. Find the product, using suitable properties:

- | | |
|--|---------------------------------|
| (a) $26 \times (-48) + (-48) \times (-36)$ | (b) $8 \times 53 \times (-125)$ |
| (c) $15 \times (-25) \times (-4) \times (-10)$ | (d) $(-41) \times 102$ |
| (e) $625 \times (-35) + (-625) \times 65$ | (f) $7 \times (50 - 2)$ |
| (g) $(-17) \times (-29)$ | (h) $(-57) \times (-19) + 57$ |

6. A certain freezing process requires that room temperature be lowered from 40°C at the rate of 5°C every hour. What will be the room temperature 10 hours after the process begins?

7. In a class test containing 10 questions, 5 marks are awarded for every correct answer and (-2) marks are awarded for every incorrect answer and 0 for questions not attempted.

- (i) Mohan gets four correct and six incorrect answers. What is his score?
(ii) Reshma gets five correct answers and five incorrect answers, what is her score?
(iii) Heena gets two correct and five incorrect answers out of seven questions she attempts. What is her score?

8. A cement company earns a profit of ₹ 8 per bag of white cement sold and a loss of ₹ 5 per bag of grey cement sold.

- (a) The company sells 3,000 bags of white cement and 5,000 bags of grey cement in a month. What is its profit or loss?