

ACTIVITY -1

TOPIC: INTEGERS

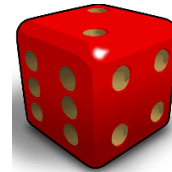
TITLE: MULTIPLICATION OF INTEGERS

1. What we have to do?

To apply the multiplication of integers by playing a game.

2. What is required?

Chart paper, a pair of scissors, geometry box, adhesive, colours, 2 white colour dice for positive integers and 2 red colour dice for negative integers.



3. How much time is required?

30 - 40 minutes

4. What do you need to know?

Knowledge about basic operations and concept of integers

5. How will you proceed?

- Draw 11×7 grid on a chart paper.
- Write the integers from (- 36) to (+36) in each box, leaving the first two and last two boxes blank and colour the boxes pink which contain negative integers. as shown in the Fig.1.

- c. Three chances will be given to each player:
- For two positive integers (use 2 white dice)
 - For one negative and one positive integer (use 1 red dice and 1 white dice)
 - For two negative integers (use 2 red dice)
- d. Two dice will be thrown simultaneously by each player and after every throw the player has to multiply the numbers (keeping in mind their signs) reflected on the top of the dice.
- e. If the product is negative, the player will move his counter towards (-36), starting from the digit 0 and if the product is positive the player will move his counter towards (+36).
- f. The player who reaches (+36) first will be the winner.

6. What have you observed?

<u>Player1</u> Integer reflected on both the dice			$a \times b$	<u>Player2</u> Integer reflected on both the dice			$a \times b$
Chance 1	a = _____	b=_____	_____	a = _____	b=_____	_____	_____
Chance 2	a = _____	b=_____	_____	a = _____	b=_____	_____	_____
Chance 3	a = _____	b=_____	_____	a = _____	b=_____	_____	_____

7. What have you learnt?

8. Extended Activity

What will be the sign of the product you get, if you multiply 15 negative integers and 7 positive integers?

Real life Applications:

The above concept is used in our day-to-day life incidents viz. measuring temperature, in banking operations, sports, market place, games etc....