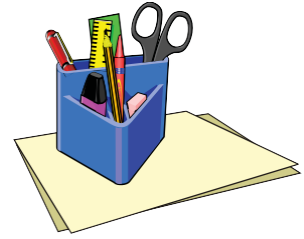


Activity 10



OBJECTIVE

To do multiplication of numbers using concrete objects

MATERIAL REQUIRED

Broomsticks, paper, pencil/pen, cardboard, glue

DEMONSTRATION

1. Take a cardboard of a convenient size and paste a white paper on it.
2. To perform multiplication of a number 5 with a number, take 5 broomsticks and paste them on the cardboard. (Fig.1)



Fig. 1

3. To multiply a number 5 and 1, put one stick horizontally on the 5 vertical sticks on the cardboard as shown in Fig. 2.
4. Count the number of points of intersection as shown in Fig. 3 which is 5.

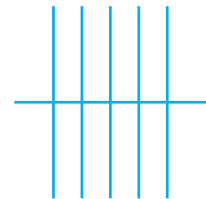


Fig.2

$$5 \times 1 = 5$$

5. Now, place 2 sticks horizontally on the 5 vertical sticks as in Fig. 4. Count the points

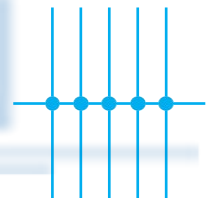


Fig.3

of intersection. Number of points of intersection is 10.

Thus, $5 \times 2 = 10$

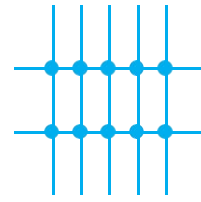


Fig. 4

6. Similarly, place 3 sticks horizontally on the 5 vertical sticks and count the points of intersection, which is 15.

So, $5 \times 3 = 15$

In this way, find the product of 5 with any number.

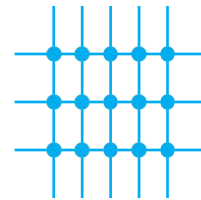


Fig. 5

OBSERVATION

1. Number of vertical sticks = _____.

Number of horizontal sticks = 1.

Number of points of intersection = _____ = _____ $\times$ 1.

2. The number of horizontal sticks = 2

Number of points of intersection = _____ = _____ $\times$ 2.

3. Number of horizontal sticks = 3

Number of points of intersection = _____ $\times$ _____.

$$5 \times 1 = \underline{\hspace{2cm}},$$

$$5 \times 2 = \underline{\hspace{2cm}},$$

$$5 \times 3 = \underline{\hspace{2cm}},$$

$$5 \times 4 = \underline{\hspace{2cm}},$$

$$5 \times 5 = \underline{\hspace{2cm}},$$

$$5 \times 6 = \underline{\hspace{2cm}},$$

$$5 \times 7 = \underline{\hspace{2cm}},$$

$$5 \times 8 = \underline{\hspace{2cm}},$$

$$5 \times 9 = \underline{\hspace{2cm}},$$

$$5 \times 1 =$$

APPLICATION

This activity can be used in finding product of any two numbers.