

ACTIVITY NO. - 3

Subject	MATHEMATICS
Class	VI
Chapter/Unit	Playing With Numbers
Topic	Factors
Time	30 minutes
Nature of Activity	Individual

What will I learn (Learning outcome)?

To find the factors of a given number.

Skills:- Creating , Visualizing, Assimilating, Identifying

What I have to do?

To find the factors of a given number by activity method.

What do I require?

Buttons, paper and pencil/pen.

What do I need to know?

Multiplication facts

➤ Teacher's Activity

Teacher will discuss about multiplication facts and will explain the steps of the activity.

How will I proceed?

➤ Student's Activity

- Take a sufficient number of buttons (say 15) and try to arrange them in rows in such a way that each row has the same number of buttons.
- Arrange the buttons in one row as shown in Fig.1.



Fig.1

- Since, no such arrangement would be possible to place same number of buttons in two rows, so, arrange the buttons in three rows as shown in Fig.2.



Fig.2

- Similarly, no such arrangement would be possible to place same number of buttons in four rows, so, arrange the buttons in five rows as shown in Fig.3.



Fig.3

- Continue the process and the only possible arrangement left was to place the buttons in fifteen rows as shown in Fig.4.



Fig.4

What have I observed?

Complete the following table:

Number	Rows (R)	Columns (C)	(R X C)	Factors

What have I learnt?

To find the _____ of a given number.

What am I curious to know?

Find all the factors of 60 using beads or stones.

Let me evaluate myself

1. Which factor is common to all the numbers?

2. Find each missing factor:

- (a) _____ x 8 = 24
(b) 4 x 9 = _____ x 6
(c) 7 x _____ = 8
(d) 3 x 15 = 5 x _____
(e) _____ x 50 = 100

3. Write all the factors of the following numbers:

- (a) 18 _____
(b) 35 _____
(c) 42 _____
(d) 75 _____
(e) 100 _____

4. Find the sum of all the factors of 48.

5. Which number has both 6 and 9 as factors?
