

ACTIVITY NO. – 9 HOW MANY TIMES?

SUBJECT	MATHEMATICS
CLASS	III
CHAPTER/UNIT	HOW MANY TIMES?
TOPIC	MULTIPLICATION AS REPEATED ADDITION
TIME	30 MINUTES
NATURE OF ACTIVITY	INDIVIDUAL

What will I learn (Learning Outcome)?

Representing multiplication as repeated addition through learning by doing.

Skills: Understanding, Applying, Creating, Evaluating.

What I have to do?

To observe pattern in multiplication.

What do I require?

A4 size sheet, some matchsticks/ toothpicks/ broom sticks, adhesive, sketch pen, pencil and eraser.

What do I need to know?

Expressing addition facts as multiplication facts and vice versa.

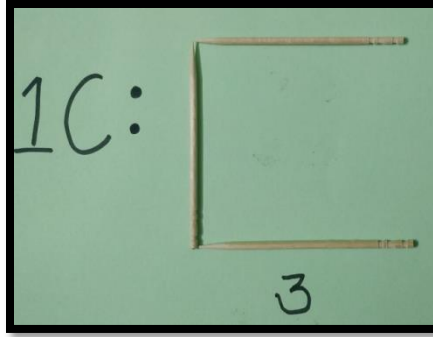
➤ Teacher's Activity :

The teacher will recall that how to convert addition facts to multiplication facts and vice versa.

How will I proceed?

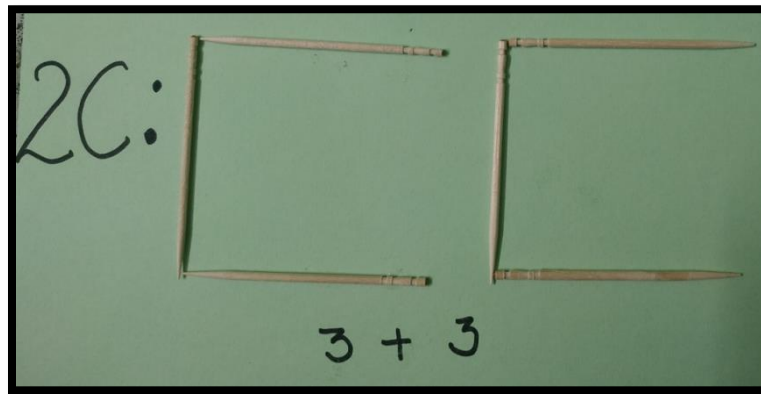
➤ Student's Activity :

- 1) Take 3 toothpicks / matchsticks / broom sticks, use them to make an English alphabet C and paste it on the A4 size sheet. (as shown in Fig.1)



(Fig. No. 1)

- 2) Now make C two times using toothpicks / matchsticks / broom sticks and again paste it on the same sheet.(refer Fig. No. 2).



(Fig. No. 2)

- 3) Repeat this process 3 more times by increasing 1 C on each step.
 4) Observe the pattern and write its multiplication fact as Number of times C is formed $\times$ Number of sticks used to make one C. Eg: For 1C , Multiplication Fact will be 1×3 and so on.

What have I observed?

Number of letter C	Multiplication Fact	Addition Fact	Total number of sticks used
1C			
2C			
3C			
4C			
5C			

What have I learnt?

Multiplication is the process of repeated addition.

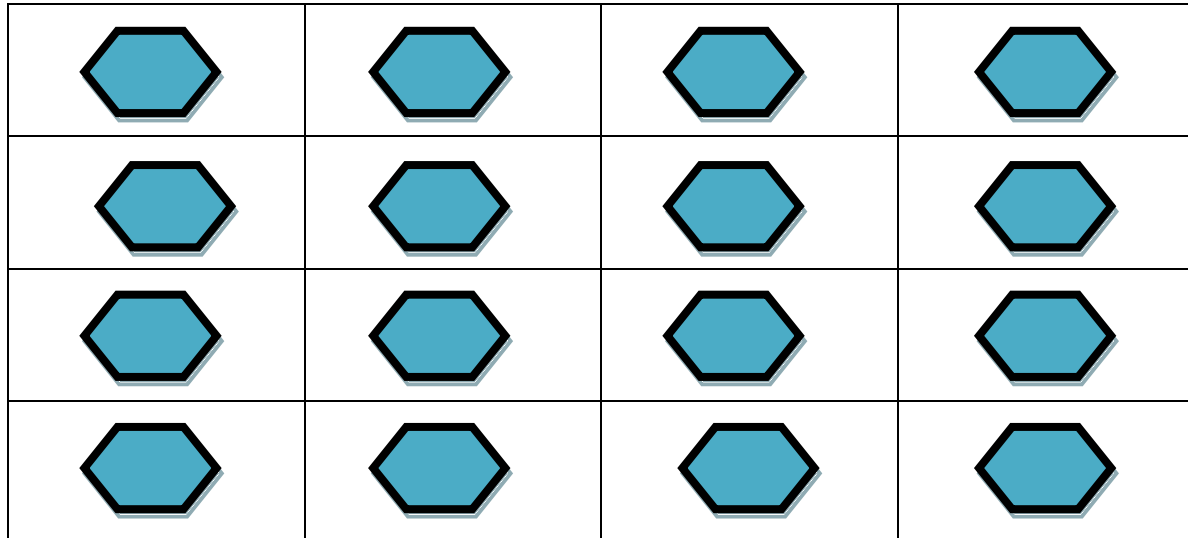
What am I curious to know?

Which English alphabet or mathematical number should I select to make multiplication table of 6?

Let me evaluate myself

Q1) Use repeated addition to find the total number of objects in equal groups shown below. Also write its corresponding multiplication fact.

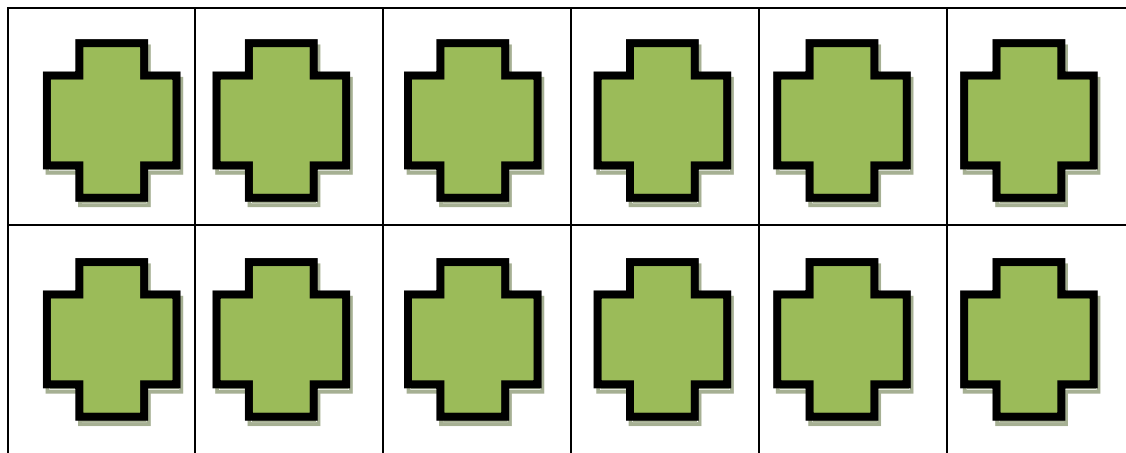
(a)



Addition fact = ____ + ____ + ____ + ____

Multiplication fact = ____ × ____

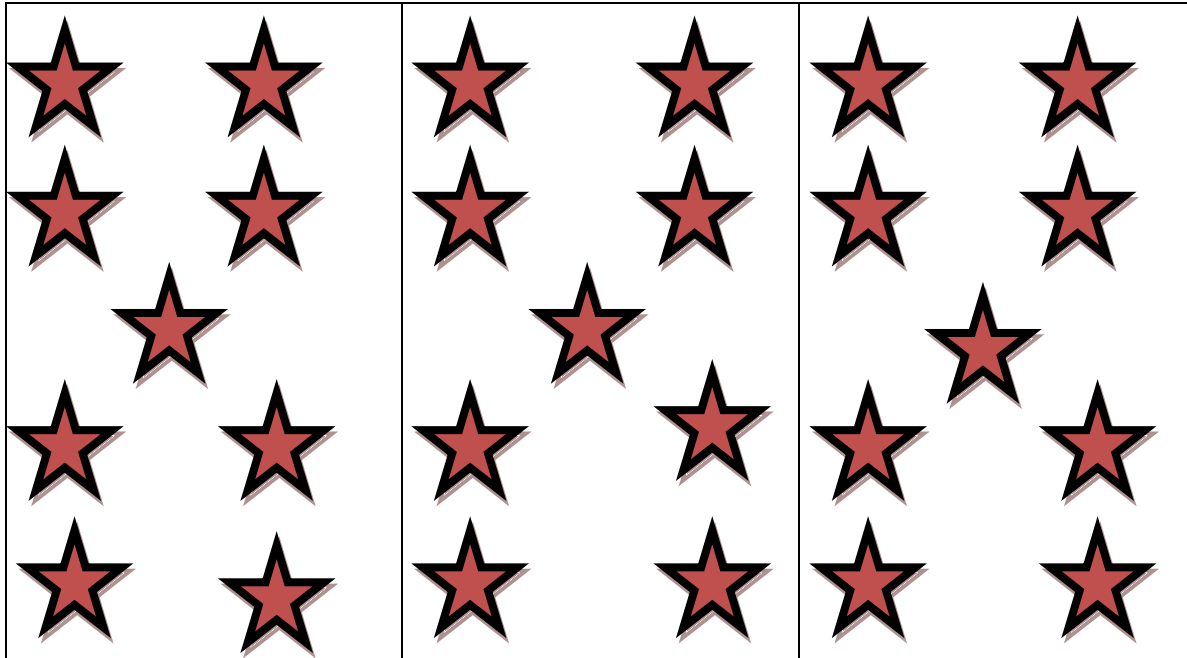
(b)



Addition fact = ____ + ____ + ____ + ____ + ____ + ____

Multiplication fact = ____ × ____

(c)



Addition fact = ____ + ____ + ____

Multiplication fact = ____ $\times$ ____

Q2) Express the following as Addition Fact.

(a) $15 \times 4 =$ _____

(b) $20 \times 6 =$ _____

(c) $18 \times 3 =$ _____

(d) $9 \times 4 =$ _____