



G3.27 | MULTIPLICATION AS A NUMBER STATEMENT

Number Operations Concepts - NCERT Chapter 9: How Many Times?

Students will be able to express multiplication as a number statement

40- 50 min

PRE REQUISITES:

G3.26 Know the concept of multiplication

TLM



16 Square cut out: 4 students

MISCONCEPTIONS

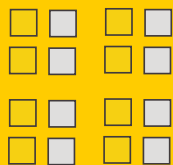
None

KEY VOCABULARY

None



PLAY



4x4



2x8

Form number statements by arranging squares in groups of different sizes

○ Divide students in groups of 4. Distribute 16 square cut outs to each group

○ Ask the students to cut the squares & arrange the squares as 2 groups of 8

○ Tell the students that the collection can be written as 2 times 8 or 2X8

○ Ask the students to arrange the squares as 1 group of 16

○ Tell the students that the collection can be written as 2 times 8 or 1X16

○ Ask the student to arrange the squares as 4 groups of 4 squares each

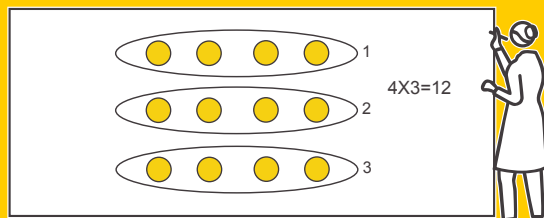
QUESTION

Which of these correctly represents your collection: 4 times 4 or 4 times 2?

○ Summarize that the same number of squares can be arranged differently



PROCESS



Writing multiplication statements by looking at the picture

○ Draw 5 branches with 4 leaves each. Count the branches & tell the students that there are 5 branches

○ Count the leaves in any one branch & tell the students that each branch has 4 leaves

○ Explain that you can find the total number of branches by adding 4 5 times

○ Write $4+4+4+4+4 = 5 \text{ times } 4 = 5 \times 4$

○ Draw 3 groups of 4 circles. Count the groups & tell that there are 3 groups & each group has 4 circles

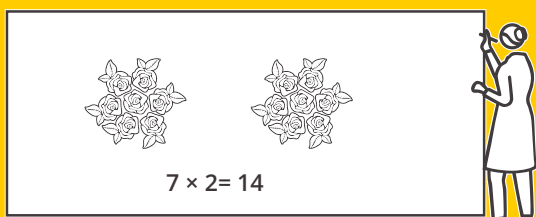
○ Remind students that just as 5 branches of 4 can be represented as 5×4 , 3 groups of 4 can be represented as 3 times 4

QUESTION

How will you represent 6 groups 2 items each?



PRACTICE



Draw the question on the black board & ask the students to solve

○ Help the students solve question 3 from the worksheet. Ask the students to write the multiplication statements by looking at the picture

○ Help the students solve question 5 from the worksheet. Ask the student to write the word statements as number statements

9 times 2 is 18

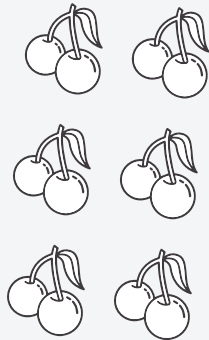
----- X ----- = -----

2 times 9 is 18

----- X ----- = -----

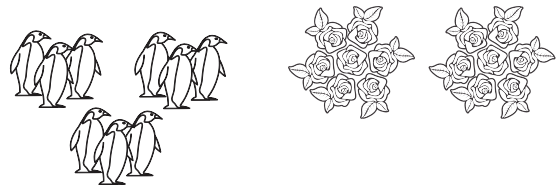


- ① SOLVED EXAMPLE : There are 6 groups of 2 cherries each. Write in the form of number statement



$$6 \times 2 = 12$$

- ② The picture shows 3 groups of 3 penguins. How many penguins are there in all?



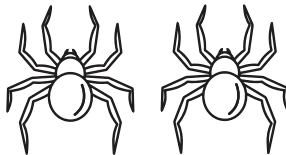
$$3 \times 3 = \underline{\quad}$$

- ③ Look at the picture & write the multiplication number sentence for it



- ④ Circle the correct number sentence for each picture

a.  $2 \times 6 = 12$
 $12 \times 2 = 24$

b.  $2 \times 4 = 8$
 $2 \times 8 = 16$

- ⑤ Write the word statements as number statements

a. 9 times 2 is 18

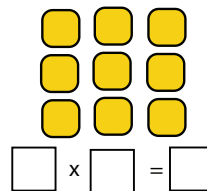
$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

b. 2 times 9 is 18

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

- ⑥ Find out how many will be there if

a. There are 3 groups of 3 squares each?



$$\square \times \square = \square$$

b. There are 4 groups of 2 stars each?



$$\square \times \square = \square$$



2 times 5 can be shown as 2 groups of 5 circles. Can you show 4 times 5 by making groups of circles?

