



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

Students will be able to complete a given multiplication equation by finding the unknown number

40- 50 min

PRE REQUISITES:

G3.29,G3.30,G3. 31 Know multiplication tables for 2,3,4,7,5,10

TLM



Circular slips (write 8 on it)

MISCONCEPTIONS

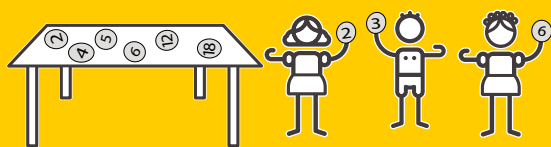
None

KEY VOCABULARY

None



PLAY



Make multiplication facts

Prepare slips numbered 1 to 100. Spread them randomly on the table

Call 3 students to pick one number each and make a number statement of their choice

Repeat the activity with other groups of students

QUESTION

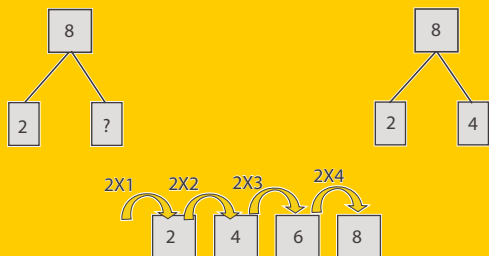
How did you make the number statement? How can you check if your no. statement is correct

QUESTION

Can you make another number statement using the same slips?



PROCESS



Completing multiplication statements

Write numbers 8 and 2 as shown. Tell students that 2 multiplied by another number can make 8

Tell the students that to identify the missing no. they should recall the multiplication table for 2 and read it upto 4

Write $2 \times 4 = 8$. Write another example, $3 \times _ = 12$. Tell that the missing no. can be identified by recalling tables for 3

If they read the table of 3 till they get a multiplication fact such that product is equal to 12

Write $_ \times 5 = 20$. Tell multiplication is commutative. Changing positions of no.s to be multiplied doesn't change product.

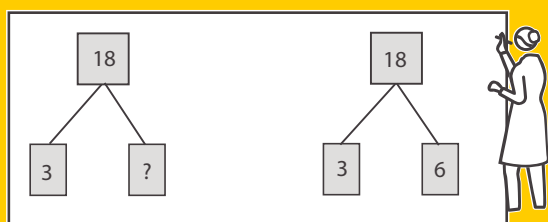
Rewrite the statement as $5 \times _ = 20$. Ask to recall the table for 5 & find the multiplication fact such that product is 20

Summarize that multiplication statements can be completed by recalling the correct multiplication facts

Tell that recalling multiplication table for 1 of the given no.s helps to identify the fact quickly



PRACTICE



Write the question on the blackboard and ask the students to solve

Help the students solve question 2 from the worksheet. Ask the students to complete in the table for 8 by filling in the missing numbers

Fill in the blanks :

(a) $3 \times _ = 12$ (b) $4 \times _ = 36$

(c) $3 \times _ = 18$

Help the students solve question 3 from the worksheet. Ask the students to fill in the blanks by recalling the correct multiplication statements

Emphasize that multiplication of a number with 1 gives the number itself

Complete the table of 8:

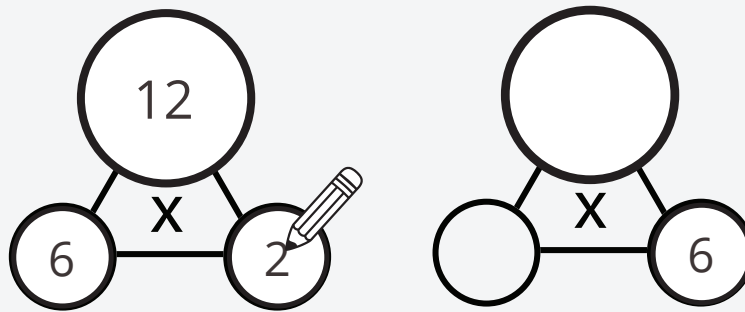
1 X 8	
2 X	16
.... X	24
4 X	

TEACHER'S NOTE

Put up multiplication charts in the classroom to help students recall multiplication facts quicker



① SOLVED EXAMPLE : Fill correct numbers in the blanks



② Correct the multiplication sentences

- a. $8 \times 3 = 38$
- b. $6 \times 3 = 15$
- c. $4 \times 4 = 20$

③ Complete the multiplication table for 8 by finding the missing numbers

8×1	_____
$8 \times$ _____	16
_____ $\times 3$	24
$8 \times$ _____	32

④ Fill in the blanks

- a. $3 \times$ _____ $= 12$
- b. $4 \times$ _____ $= 36$
- c. $3 \times$ _____ $= 18$
- d. $9 \times$ _____ $= 9$

⑤ I have 16 earrings. How many pairs of earrings do I have?

_____ $\times 2 = 16$



Ravi feeds 4 dogs every day. He makes 16 chapatis in all for the dogs. If each dog eats the same number of chapatis, how many chapatis does each dog eat every day?