



Students will be able to write all multiplication facts of a product

40- 50 min

PRE REQUISITES:

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

TLM

None

MISCONCEPTIONS

None

KEY VOCABULARY

None



### PLAY

|             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|
| 1 x 1 = 1   | 2 x 1 = 2   | 3 x 1 = 3   | 4 x 1 = 4   | 5 x 1 = 5   |
| 1 x 2 = 2   | 2 x 2 = 4   | 3 x 2 = 6   | 4 x 2 = 8   | 5 x 2 = 10  |
| 1 x 3 = 3   | 2 x 3 = 6   | 3 x 3 = 9   | 4 x 3 = 12  | 5 x 3 = 15  |
| 1 x 4 = 4   | 2 x 4 = 8   | 3 x 4 = 12  | 4 x 4 = 16  | 5 x 4 = 20  |
| 1 x 5 = 5   | 2 x 5 = 10  | 3 x 5 = 15  | 4 x 5 = 20  | 5 x 5 = 25  |
| 1 x 6 = 6   | 2 x 6 = 12  | 3 x 6 = 18  | 4 x 6 = 24  | 5 x 6 = 30  |
| 1 x 7 = 7   | 2 x 7 = 14  | 3 x 7 = 21  | 4 x 7 = 28  | 5 x 7 = 35  |
| 1 x 8 = 8   | 2 x 8 = 16  | 3 x 8 = 24  | 4 x 8 = 32  | 5 x 8 = 40  |
| 1 x 9 = 9   | 2 x 9 = 18  | 3 x 9 = 27  | 4 x 9 = 36  | 5 x 9 = 45  |
| 1 x 10 = 10 | 2 x 10 = 20 | 3 x 10 = 30 | 4 x 10 = 40 | 5 x 10 = 50 |

Searching for the multiplication facts for a given

○ Distribute one tables chart to every group of four students. Write 18 on the board

○ Ask each group to search in the tables and tell a number fact about 18. Write  $18 = 1 \times 18$  on the board

○ Call 1 student from every group which has found a different multiplication fact of 18 to come and write it on the board

○ Let all the three multiplication facts of 18 be there on the board

○ Give them another number and repeat the same

**TEACHER'S NOTE**

Students might tell  $3 \times 6$  &  $6 \times 3$  as 2 different facts. Remind that commutative property of multiplication



### PROCESS

$$10 \times 1 = 10$$

$$2 \times 5 = 10$$

$$5 \times 2 = 10$$



Understanding the multiplication fact families

○ Show a multiplication chart and show how number 12 comes in the tables of 2, 3, 4 and 6

○ Highlight all multiplication facts of 12 on the chart. Write all multiplication facts of 12 as seen on the table chart

○ Tell that every number can similarly be written as a multiplication of some numbers

○ Emphasize that there are no.s can be written as products of more than 2 no.s.  $2 \times 6$  is 12 & so is  $4 \times 3$

○ Write  $7 \times 1 = 7$  and explain that 7 can only be written as product of 1 and 7

○ Write multiplication facts for 10. Explain it can be written as a product of 2 & 5 or as a product of 10 & 1. Provide examples

**QUESTIONS**

How many multiplication facts are there for number 24? How do you know?



### PRACTICE

$$3 \times 4, \quad 2 \times 6, \quad 4 \times 10$$



Write the question on the black board and ask the students to solve

○ Help the students solve question 3 from the worksheet. Ask the students to write these numbers as products of 2 different sets of numbers

(a) 40:

(b) 12:

(c) 30:

○ Help the students solve question 4 from the worksheet. Ask the students to circle the multiplication fact that doesn't belong in the group

(a)  $3 \times 8$ ,  $6 \times 4$ ,  $4 \times 12$

(b)  $3 \times 3$ ,  $1 \times 9$ ,  $2 \times 7$



- ① SOLVED EXAMPLE :  
Write all the members of the fact family of the following numbers:

| S.No. | Number | Multiplication Facts                                                                                        |
|-------|--------|-------------------------------------------------------------------------------------------------------------|
| 1.    | 14     | $14 \times 1 = 14$<br>$7 \times \underline{\quad} = 14$<br>$2 \times \underline{\quad} = 14$                |
| 2.    | 24     | $4 \times \underline{\quad} = 24$<br>$3 \times \underline{\quad} = 24$<br>$6 \times \underline{\quad} = 24$ |

- ② Fill in the blanks:

a.  $8 \times 3 = 6 \times \underline{\quad}$

b.  $7 \times \underline{\quad} = 1 \times 14$

c.  $27 \times 1 = 3 \times \underline{\quad}$

- ③ Write the number as product of different numbers

a. 40:

b. 45:

c. 30:

- ④ Circle the multiplication fact that doesn't belong in the group

a.  $3 \times 8$ ,  $6 \times 4$ ,  $4 \times 12$

b.  $3 \times 3$ ,  $1 \times 9$ ,  $2 \times 7$

- ⑤ Match the numbers that give the same product

|              |               |
|--------------|---------------|
| $6 \times 3$ | $3 \times 3$  |
| $9 \times 1$ | $9 \times 2$  |
| $4 \times 5$ | $10 \times 2$ |



Look at the clock face here:

Use the 12 numbers given here and make as many multiplication facts as possible using only these numbers.

