MATHEMATICS
MULTIPLICATION

ONLINE CLASS

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LESSON
PART 3

MULTIPLICATION

READY ... STEADY

Look at these pictures.

Girl 1

Girl 1 is wearing a pair of two ear-rings with 1 bead in each.

Girl 2

Girl 2 has 1 bead more than Girl 1 in each ear-ring. So now it is, $2 + 2 = 4$

Girl 3

Girl 3 has 1 bead more than Girl 2 in each of her ear-rings. So, $2 + 2 + 2 = 6$

Given below are Girl 4, 5 and 6. Draw the beads for the ear-rings to show what will come next.

Girl 4

Girl 5

Girl 6

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REPEATED ADDITION

When the same number is added over and over again it is a *repeated addition*.

Repeated addition is called *multiplication*.

The symbol used for multiplication is ✕. It is read as "INTO".

Example :

In the addition $2 + 2 + 2 + 2$, 2 is repeated 4 times. It can be changed to multiplication and rewritten as 4 times 2 or 4×2 (4 into 2).

$$2 + 2 + 2 + 2 \quad = \quad 8$$
$$4 \times 2 \quad\quad\quad = \quad 8$$

Fill in the blanks.

2	+ 2	+ 2	+ 2	= ....
3	+ 3	+ 3		= ....
4	+ 4			= ....
5	+ 5	+ 5	+ 5	= ....

MATHS LAB

**Objective :** To reinforce the concept of multiplication

Materials Required : 10 bowls, 100 beads

Steps :

1. Place the bowls in front of the students.

2. Call one student and ask him/her to take a certain number of beads (the number should be a multiple of 2).

3. Ask the student to divide the beads into bowls so that each bowl gets 2 beads and find out how many bowls are needed.
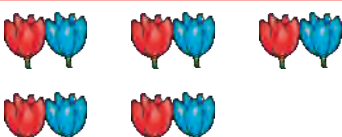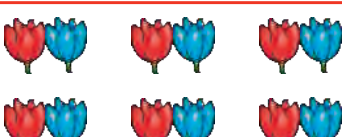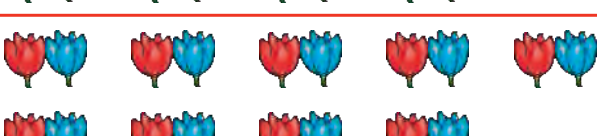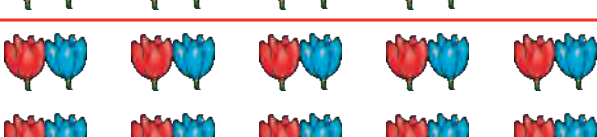
   For example, in order to divide 14 beads, 7 bowls will be needed. So, tell the students that 7 times 2 is 14.

4. Now, give another number and ask another student to do the same activity.
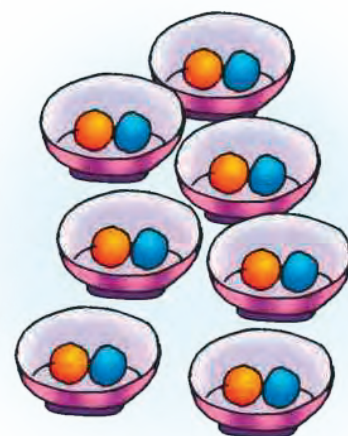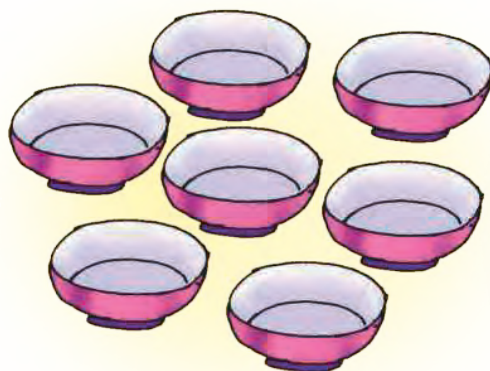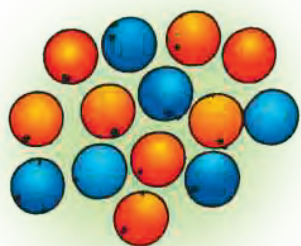
5. Repeat this activity with other numbers.

MULTIPLICATION BY 2

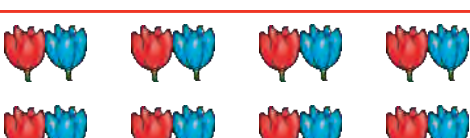|		
🌷🌷	1 two are 2	$1 \times 2 = 2$
🌷🌷 🌷🌷	2 twos are 4	$2 \times 2 = 4$
🌷🌷 🌷🌷 🌷🌷	3 twos are 6	$3 \times 2 = 6$
🌷🌷 🌷🌷 🌷🌷 🌷🌷	4 twos are 8	$4 \times 2 = 8$
🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷	5 twos are 10	$5 \times 2 = 10$
🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷	6 twos are 12	$6 \times 2 = 12$
🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷	7 twos are 14	$7 \times 2 = 14$
🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷	8 twos are 16	$8 \times 2 = 16$
🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷	9 twos are 18	$9 \times 2 = 18$
🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷 🌷🌷	10 twos are 20	$10 \times 2 = 20$

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MULTIPLICATION TABLES

Table of 3

$1 \times 3 = 3$
$2 \times 3 = 6$
$3 \times 3 = 9$
$4 \times 3 = 12$
$5 \times 3 = 15$
$6 \times 3 = 18$
$7 \times 3 = 21$
$8 \times 3 = 24$
$9 \times 3 = 27$
$10 \times 3 = 30$

Table of 5

$1 \times 5 = 5$
$2 \times 5 = 10$
$3 \times 5 = 15$
$4 \times 5 = 20$
$5 \times 5 = 25$
$6 \times 5 = 30$
$7 \times 5 = 35$
$8 \times 5 = 40$
$9 \times 5 = 45$
$10 \times 5 = 50$

Table of 10

$1 \times 10 = 10$
$2 \times 10 = 20$
$3 \times 10 = 30$
$4 \times 10 = 40$
$5 \times 10 = 50$
$6 \times 10 = 60$
$7 \times 10 = 70$
$8 \times 10 = 80$
$9 \times 10 = 90$
$10 \times 10 = 100$

Multiply and find the product.

$1 \times 2 =$	$9 \times 5 =$	$4 \times 5 =$
$2 \times 3 =$	$3 \times 5 =$	$2 \times 2 =$
$4 \times 2 =$	$3 \times 2 =$	$9 \times 10 =$
$8 \times 2 =$	$10 \times 5 =$	$5 \times 2 =$
$1 \times 3 =$	$6 \times 10 =$	$8 \times 3 =$
$7 \times 3 =$	$10 \times 3 =$	$1 \times 10 =$
$5 \times 10 =$	$6 \times 5 =$	$7 \times 10 =$

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WORKSHEET

Match the kite with correct reel.

Kites:
- $5 + 5 + 5$
- $2 + 2 + 2 + 2$
- $4 + 4$
- $3 + 3 + 3 + 3$
- $8 + 8 + 8 + 8 + 8$

Reels:
- 2 groups of 4
- 5 groups of 8
- 3 times 5
- 4×2
- 4×3
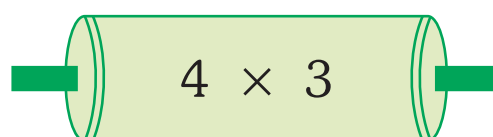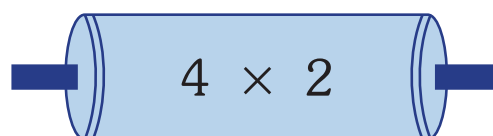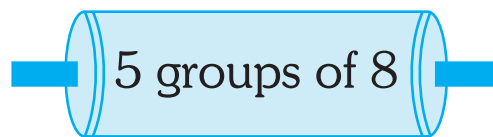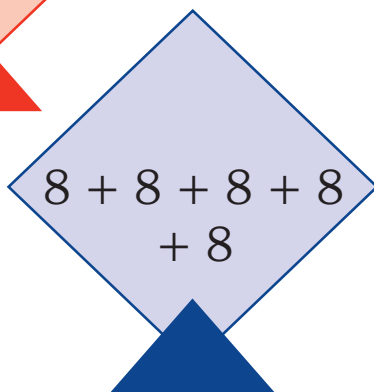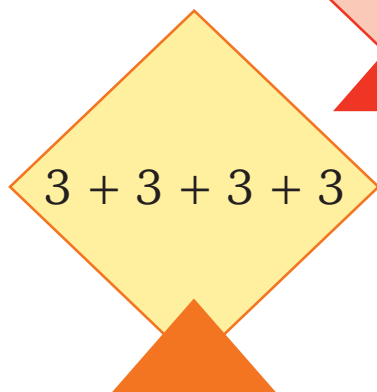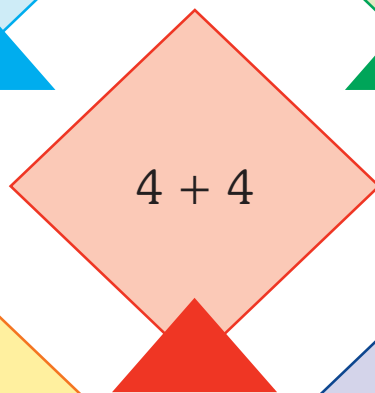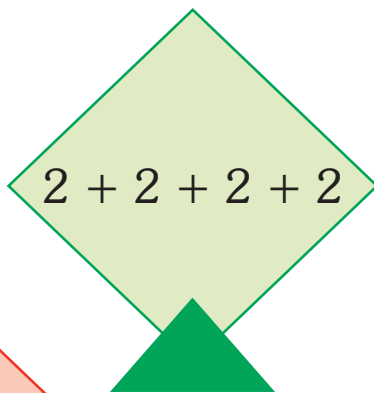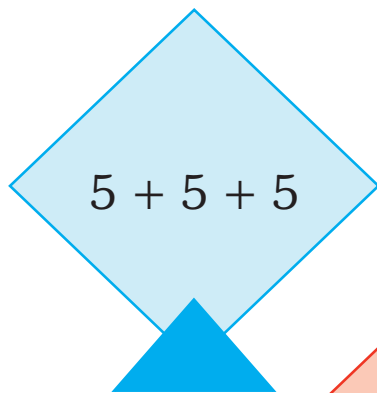
Multiply and find the product.

$1 \times 2 =$	$6 \times 2 =$	$4 \times 2 =$
$7 \times 3 =$	$2 \times 3 =$	$3 \times 3 =$
$8 \times 5 =$	$3 \times 5 =$	$5 \times 5 =$
$9 \times 10 =$	$2 \times 10 =$	$10 \times 10 =$