



INSTITUCION EDUCATIVA TECNICO SUPERIOR INDUSTRIAL



MULTIPLICATION



Multiplication is a way to add the same number several times.

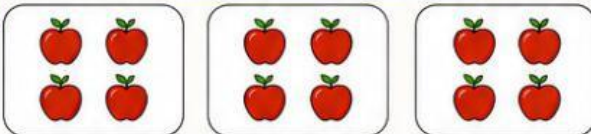


1. WHAT IS MULTIPLICATION?

It shows how many groups of equal size we have.

Example:

$$3 \times 4 = 12$$



3 groups of 4 apples = 12 apples

Repeated addition: $4 + 4 + 4 = 12$



2. PARTS OF A MULTIPLICATION

$$5 \times 6 = 30$$

First factor Second factor Product (answer)



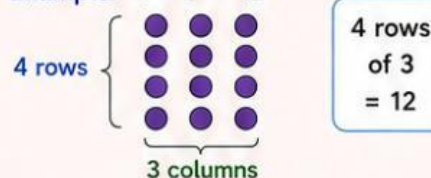
3. EASY RULES TO REMEMBER

- 0** Anything $\times 0 = 0$
 $7 \times 0 = 0$ Always 0
- 1** Anything $\times 1 =$ the number itself
 $9 \times 1 = 9$ Stays the same
- 2** Multiply by 2 = double the number
 $6 \times 2 = 12$ Double it
- 5** Multiply by 5 = ends in 0 or 5
 $5 \times 7 = 35$ Ends in 0 or 5
- 10** Multiply by 10 = add a zero
 $8 \times 10 = 80$ Add a zero

5. MULTIPLICATION USING ARRAYS

Arrays help us see multiplication.

Example: $4 \times 3 = 12$



7. REAL-LIFE EXAMPLES

$$3 \times 5 = 15$$

3 boxes with 5 pencils each.



$$4 \times 2 = 8$$

4 plates with 2 cookies each.



How did you do?



I understand!



I need more practice



It's still difficult

Listen to all

Study again

Back to home

LIVEWORKSHEETS

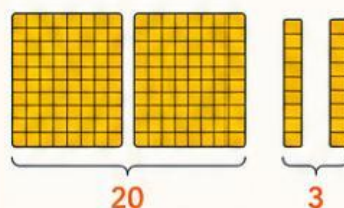
4. MULTIPLICATION TABLE (1-10)

$\times$	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

6. MULTIPLICATION WITH LARGER NUMBERS

Example: 23×4

Break 23 into 20 and 3.



$$20 \times 4 = 80$$

$$3 \times 4 = 12$$

Add the products:
 $80 + 12 = 92$

$$23 \times 4 = 92$$

8. PRACTICE TIME!

Solve the problems.

- 1 $2 \times 6 =$
- 2 $3 \times 7 =$
- 3 $4 \times 8 =$
- 4 $5 \times 6 =$
- 5 $6 \times 7 =$
- 6 $7 \times 8 =$
- 7 $8 \times 9 =$
- 8 $9 \times 6 =$
- 9 $10 \times 5 =$
- 10 $12 \times 4 =$



✓ Check Answers

↻ New Exercises

Progress



Keep practicing! You are doing great!

