SEMESTER - 2

MONTH : OCTOBER

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CHAPTER - 1

MULTIPLICATION :

Technical Terms :

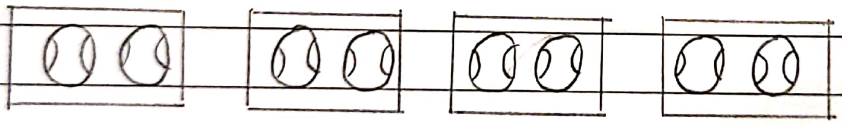
* Repeated Addition
* Factor
* product
* multiplication tables

Keywords :

* multiply
* times
* How many.

Multiplication sign (x) represents the number of repetition.

For example,



2 + 2 + 2 + 2

4 times 2
= (or)
4 × 2 = 8

I. Fill in the blanks :

1. Multiplication is the shortest and fastest way for repeated addition.
2. The result of multiplication is called a product.

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3. $4 \times 7 = 28$
4. $9 \times 3 = 27$
5. $6 \times 10 = 60$

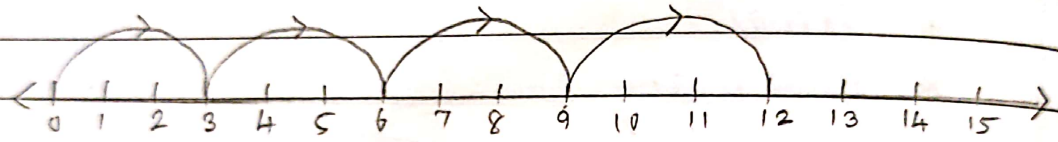
II. Find the product:

a) $5 \times 6 = 30$

b) $9 \times 7 = 63$

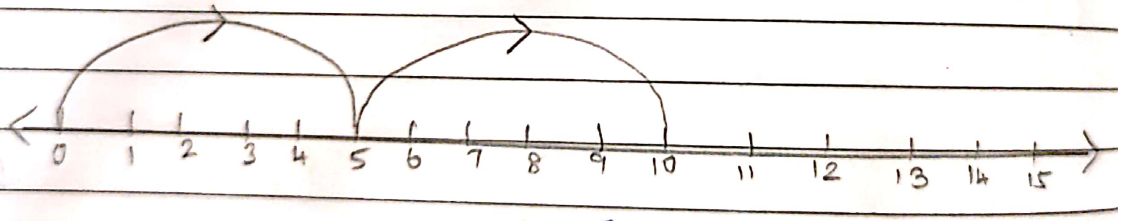
III. Solve the following:

a)



$4 \times 3 = \boxed{12}$

b)



$2 \times 5 = \boxed{10}$

Properties of multiplication:

* When a number is multiplied by 1, the answer is the number itself.

Example: $6 \times 1 = 6$.
$2 \times 1 = 2$.

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* When a number is multiplied by 0, the answer is always zero.

Example: $3 \times 0 = 0$

$5 \times 0 = 0$.

* A change in the Order of the factors does not change the answer.

Example: $4 \times 2 = 8$

$2 \times 4 = 8$.

⇒ Multiplying 2-digit numbers without carry over:

IV. Multiply the following numbers:

a) Multiply 42 by 2

	T	O
	4	2
(x)		2
	8	4

b) Multiply 11 by 5

	T	O
	1	1
(x)		5
	5	5

⇒ Multiplying 2-digit numbers with carry over

V. Multiply the following numbers:

a) Multiply 36 by 3

	H	T	O
		(1)	
		3	6
(x)			3
	1	0	8

b) Multiply 45 by 6

	H	T	O
		(3)	
		4	5
(x)			6
	2	7	0

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⇒ Multiplying 3 - digit numbers without carry over

VI. Find the product:

a)
	H	T	O
	2	1	3
(x)			3
	6	3	9

b)
	H	T	O
	2	0	1
(x)			4
	8	0	4

⇒ Multiplying 3- digit numbers with carry over.

VII. Find the product:

a)
	H	T	O
		(3)	
	1	0	5
(x)			7
	7	3	5

b)
	H	T	O
	(2)	(4)	
	1	4	8
(x)			5
	7	4	0

VIII. Word problems:

1. A week has 7 days. How many days are there in 21 weeks?

Op: x

No. of weeks = 21
No. of days in a week = (x) 7
No. of days in 21 weeks = 147

	H	T	O
	2	1	
(x)			7
	1	4	7

Ans: There are 147 days in 21 weeks.

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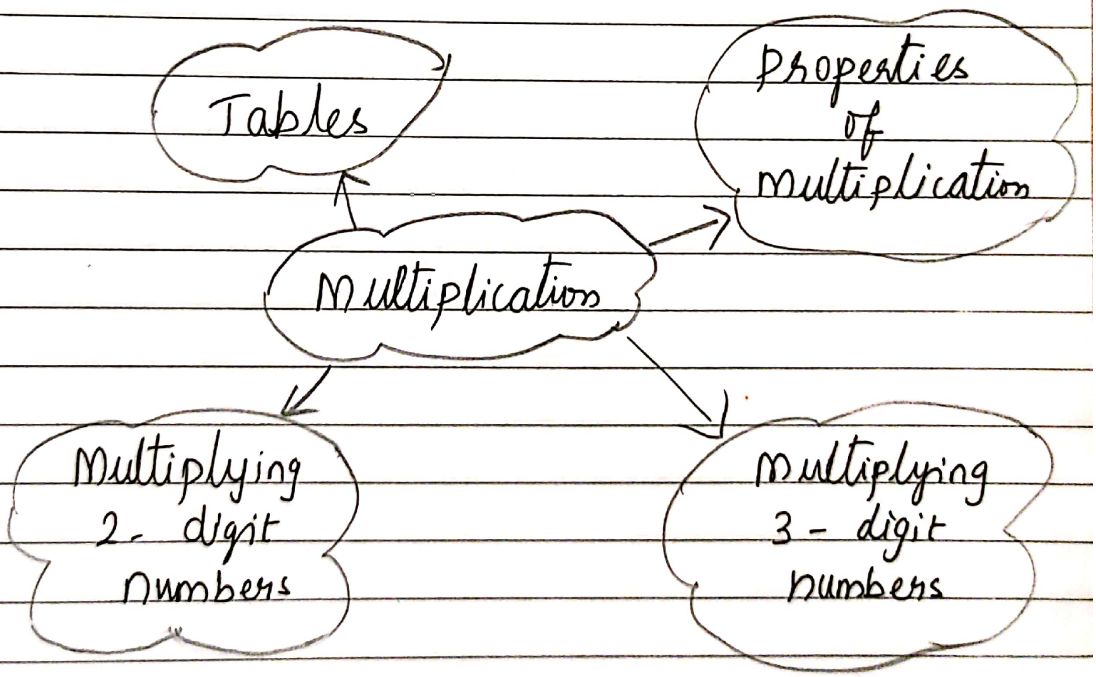
2. There are 326 mangoes on a tree. How many mangoes are there on 3 trees?

Op: ×

	H	T	O
No. of mangoes on the tree	3	2	6
	= (×)		3
No. of mangoes on 3 trees	= 9	7	8

Ans: There are 978 mangoes on 3 trees.

IX. Mind Map:



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3/10/20.