PON VIDYASHRAM GROUP OF SENIOR SECONDARY SCHOOLS

CLASS - II – MATHEMATICS NOTES JANUARY

Chapter 9 - MULTIPLICATION

4 Times 3 is 3 + 3 + 3 + 3 = 12

Or   4 × 3   = 12, is a

Multiplication fact.

Here, × is the symbol or sign of multiplication.

So, repeated addition of the same number is called multiplication.

PROPERTIES OF MULTIPLICATION:

1. Multiplication of any number with 1 is always the number itself.

2. Multiplying any number with o is always be zero.

3. Two numbers can be multiplied in any order, the product remains the same.

I. Fill in the blanks:

1. 8 × 5   = 5 × 8

2. 3 × 6   =   6 ×3

3. 9 × 3   =   3 × 9

4. 2 × 7   =   7 × 2

II. Vertical Multiplication (using multiplication tables):

1.
T	O
	4
×	3
1	2

2.
```
T    O
     5
×    8
─────────
4    0
─────────
```

3.
```
T    O
     7


×    6
─────────
4    2
─────────
```

4.
```
T    O
     9
×    2
─────────
1    8
─────────
```

III. Multiplication of 2 – digit number by a 1 – digit number (without carrying):

1.
```
T    O
7    2
×    1
─────────
7    2
─────────
```

2.
```
T    O
4    1
×    1
─────────
4    1
─────────
```

3.
```
T    O
3    3
×    3
─────────
9    9
─────────
```

4. | T | O |
|---|---|
| 1 | 1 |
| × | 5 |
| 5 | 5 |

IV. Multiplication of a 2 digit number by a 1 – digit number (with carrying):

1. | T | O |
|---|---|
| ② | |
| 1 | 5 |
| × | 5 |
| 7 | 5 |

2. | T | O |
|---|---|
| ① | |
| 2 | 4 |
| × | 4 |
| 9 | 6 |

3. | T | O |
|---|---|
| ① | |
| 2 | 8 |
| × | 2 |
| 5 | 6 |

4. | T | O |
|---|---|
| ② | |
| 1 | 7 |
| × | 3 |
| 5 | 1 |

V. Multiply the following:

1.
H	T	O
	②	
	5	7
	×	4
2	2	8

2.
H	T	O
	9	0
	×	2
1	8	0

3.
H	T	O
	①	
	8	3
	×	5
4	1	5

4.
H	T	O
	⑥	
	9	9
	×	7
6	9	3

VI. Solve the following word problems:

1. There are 75 books in a box. Find the total number of books in 5 boxes.

OP: X

		H	T	O
			②	
Number of books in a box	=		7	5
Number of boxes	=		×	5
Number of books in 5 boxes =		3	7	5

ANS: Total number of books in 5 boxes are 375

2. The cost of 1 ice – cream cone is 46 rupees. Find the cost of 5 ice – cream cones.

OP: X

Cost of 1 ice – cream cone = 4   6 rupees

Cost of 5 ice – cream cones = 46 rupees × 5

2   3   0 rupees

ANS: Cost of 5 ice – cream cones is 230 rupees.

VII. Mind map:

Repeated addition

Symbol ×

Multiplication

Vertical Multiplication

Word problems