Littera Public School

CHAPTER-4 MULTIPLICATION Class-II

Let us RECALL:-

1. **Fill in the boxes:**

(a) 1 × 1 = 1 (b) 4 × 2 = 8 (c) 2 × 3 = 6
(d) 10 × 3 = 30 (e) 5 × 4 = 20 (f) 9 × 2 = 18
(g) 7 × 4 = 28 (h) 2 × 5 = 10 (i) 7 × 1 = 7

2. **Fill in the boxes:**

(a) 1+1+1+1 = 4 × 1 (b) 1+1+1+1 = 4 × 1
(c) 2+2+2+2+2+2 = 6 × 2 (d) 2+2+2+2+2 = 5 × 2
(e) 3+3+3+3+3+3+3 = 7 × 3 (f) 3+3+3 = 3 × 3
(g) 4+4+4 = 3 × 4 (h) 4+4+4+4+4+4 = 6 × 4
(i) 5+5+5+5+5+5+5+5 = 8 × 5 (j) 5+5+5+5+5+5+5 = 7 × 5

3. **Fill in the boxes:**

(a) 5+5+5+5+5+5+5 = 5 × 7 (b) 3 × 1 = 1 + 1 + 1
(c) 4+4+4+4+4+4 = 4 × 6 (d) 5 × 2 = 2 + 2 + 2 + 2 + 2
(e) 3+3+3+3+3+3 = 3 × 6 (f) 6 × 3 = 3 + 3 + 3 + 3 + 3 + 3
(g) 2+2+2+2+2+2 = 2 × 6 (h) 5 × 4 = 4 + 4 + 4 + 4 + 4
(i) 1+1+1+1+1 = 1 × 5 (j) 4 × 5 = 5 + 5 + 5 + 5

4. **Multiply:**

(a) 35 × 2 = 70 (b) 27 × 3 = 81 (c) 17 × 4 = 68 (d) 18 × 5 = 90

5. **Each packet has 32 pens. How many pens will 3 such packets have?**

32 × 3 = 96

6. **Each bag has 17 brushes. How many brushes will 5 such bags have?**

17 × 5 = 85

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Now let us develop the Table of 6.

Steps	6's	Total	Table of 6
1.	6	6	1 × 6 = 6
2.	6 + 6	12	2 × 6 = 12
3.	6 + 6 + 6	18	3 × 6 = 18
4.	6 + 6 + 6 + 6	24	4 × 6 = 24
5.	6 + 6 + 6 + 6 + 6	30	5 × 6 = 30
6.	6 + 6 + 6 + 6 + 6 + 6	36	6 × 6 = 36
7.	6 + 6 + 6 + 6 + 6 + 6 + 6	42	7 × 6 = 42
8.	6 + 6 + 6 + 6 + 6 + 6 + 6 + 6	48	8 × 6 = 48
9.	6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6	54	9 × 6 = 54
10.	6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6	60	10 × 6 = 60

Now let us develop the Table of 7.

Steps	7's	Total	Table of 7
1.	7	7	1 × 7 = 7
2.	7 + 7	14	2 × 7 = 14
3.	7 + 7 + 7	21	3 × 7 = 21
4.	7 + 7 + 7 + 7	28	4 × 7 = 28
5.	7 + 7 + 7 + 7 + 7	35	5 × 7 = 35
6.	7 + 7 + 7 + 7 + 7 + 7	42	6 × 7 = 42
7.	7 + 7 + 7 + 7 + 7 + 7 + 7	49	7 × 7 = 49
8.	7 + 7 + 7 + 7 + 7 + 7 + 7 + 7	56	8 × 7 = 56
9.	7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 + 7	63	9 × 7 = 63
10.	7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 + 7	70	10 × 7 = 70

Let us develop the Table of 8.

Steps	8's	Total	Table of 8
1.	8	8	1 × 8 = 8
2.	8 + 8	16	2 × 8 = 16
3.	8 + 8 + 8	24	3 × 8 = 24
4.	8 + 8 + 8 + 8	32	4 × 8 = 32
5.	8 + 8 + 8 + 8 + 8	40	5 × 8 = 40
6.	8 + 8 + 8 + 8 + 8 + 8	48	6 × 8 = 48
7.	8 + 8 + 8 + 8 + 8 + 8 + 8	56	7 × 8 = 56
8.	8 + 8 + 8 + 8 + 8 + 8 + 8 + 8	64	8 × 8 = 64
9.	8 + 8 + 8 + 8 + 8 + 8 + 8 + 8 + 8	72	9 × 8 = 72
10.	8 + 8 + 8 + 8 + 8 + 8 + 8 + 8 + 8 + 8	80	10 × 8 = 80

Let us develop the Table of 9.

Steps	9's	Total	Table of 9
1.	9	9	1 × 9 = 9
2.	9 + 9	18	2 × 9 = 18
3.	9 + 9 + 9	27	3 × 9 = 27
4.	9 + 9 + 9 + 9	36	4 × 9 = 36
5.	9 + 9 + 9 + 9 + 9	45	5 × 9 = 45
6.	9 + 9 + 9 + 9 + 9 + 9	54	6 × 9 = 54
7.	9 + 9 + 9 + 9 + 9 + 9 + 9	63	7 × 9 = 63
8.	9 + 9 + 9 + 9 + 9 + 9 + 9 + 9	72	8 × 9 = 72
9.	9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 9	81	9 × 9 = 81
10.	9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 9	90	10 × 9 = 90

Now let us develop the Table of 10.

Steps	10's	Total	Table of 10
1.	10	10	1 × 10 = 10
2.	10 + 10	20	2 × 10 = 20
3.	10 + 10 + 10	30	3 × 10 = 30
4.	10 + 10 + 10 + 10	40	4 × 10 = 40
5.	10 + 10 + 10 + 10 + 10	50	5 × 10 = 50
6.	10 + 10 + 10 + 10 + 10 + 10	60	6 × 10 = 60
7.	10 + 10 + 10 + 10 + 10 + 10 + 10	70	7 × 10 = 70
8.	10 + 10 + 10 + 10 + 10 + 10 + 10 + 10	80	8 × 10 = 80
9.	10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10	90	9 × 10 = 90
10.	10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 10	100	10 × 10 = 100

EXERCISE-4.1

1. Fill in the boxes:

(a) $6+6+6+6+6+6 = 6 \times 6$

(b) $7+7+7+7+7+7+7+7 = 8 \times 7$

(c) $8+8+8+8+8+8 = 6 \times 8$

(d) $9+9+9+9+9+9+9 = 7 \times 9$

(e) $10+10+10+10+10+10+10+10 = 8 \times 10$

2. Fill in the boxes:

(a) $6+6+6+6+6+6+6+6 = 8 \times 6$

(b) $7+7+7+7+7+7+7+7+7 = 9 \times 7$

(c) $8+8+8+8+8+8+8 = 7 \times 8$

(d) $9+9+9+9+9+9+9+9+9+9 = 10 \times 9$

(e) $10+10+10+10+10+10+10 = 7 \times 10$

3. Fill in the boxes:

(a) $7 \times 6 = 6+6+6+6+6+6+6$

(b) $5 \times 7 = 7+7+7+7+7$

(c) $9 \times 8 = 8+8+8+8+8+8+8+8+8$

(d) $6 \times 9 = 9+9+9+9+9+9$

(e) $5 \times 10 = 10+10+10+10+10$

4. Fill in the boxes:

(a) $6+6+6+6+6+6+6+6+6 = 6 \times 9$

(b) $7+7+7+7+7+7+7 = 7 \times 7$

(c) $8+8+8+8+8+8+8+8 = 8 \times 8$

(d) $9+9+9+9+9+9+9 = 7 \times 9$

(e) $10+10+10+10+10+10 = 6 \times 10$

5. Fill in the blanks:

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

* vertical Multiplication without carry over *

EXERCISE-4.2

Multiply:

1. H O
   1 0
   × 6
   6 0

2. H O
   1 1
   × 7
   7 7

3. H O
   1 1
   × 8
   8 8

4. H O
   1 0
   × 9
   9 0

5. H O
   1 1
   × 9
   9 9

6. H O
   1 1 0
   × 6
   6 6 0

7. H O
   1 0 0
   × 6
   6 0 0

8. H O
   1 1 1
   × 7
   7 7 7

9. H O
   1 1 0
   × 7
   7 7 0

10. H O
    1 0 1
    × 7
    7 0 7

11. H O
    1 1 1
    × 8
    8 8 8

12. H O
    1 0 1
    × 8
    8 0 8

13. H O
    1 1 0
    × 8
    8 8 0

14. H O
    1 1 0
    × 9
    9 9 0

15. H O
    1 1 1
    × 9
    9 9 9

* Vertical Multiplication with carry over *

EXERCISE-4.3

Multiply:

1. $24 \times 6 = 144$
2. $36 \times 7 = 252$
3. $43 \times 8 = 344$
4. $54 \times 9 = 486$
5. $63 \times 10 = 630$
6. $134 \times 6 = 804$
7. $126 \times 6 = 756$
8. $131 \times 6 = 786$
9. $142 \times 6 = 852$
10. $151 \times 6 = 906$
11. $129 \times 7 = 903$
12. $123 \times 7 = 861$
13. $117 \times 7 = 819$
14. $129 \times 7 = 903$
15. $142 \times 6 = 852$
16. $109 \times 8 = 872$
17. $108 \times 8 = 864$
18. $113 \times 8 = 904$
19. $117 \times 8 = 936$
20. $123 \times 8 = 984$
21. $102 \times 9 = 918$
22. $103 \times 9 = 927$
23. $105 \times 9 = 945$
24. $107 \times 9 = 903$
25. $109 \times 9 = 981$
26. $56 \times 10 = 560$
27. $69 \times 10 = 690$
28. $87 \times 10 = 870$
29. $35 \times 10 = 350$
30. $45 \times 10 = 450$

EXERCISE-4.4

1. Each fan has 4 blades. A hall has 8 fans. What is the total number of blades?

Total number of blades is 32.

∵ Number of blades = 4
Number of fans = 8
∴ Total number of blades = $\begin{array}{r} 4 \\ \times\ 8 \\ \hline 32 \end{array}$

2. An octopus has 8 legs. How many legs will 7 octopuses have?

Total number of legs is _____.

∵ Number of octopus legs = 8
Number of octopus = 7
∴ Total number of legs = $\begin{array}{r} 8 \\ \times\ 7 \\ \hline 56 \end{array}$

3. A carton has 84 soap cakes. How many soap cakes will 6 such cartons have?

Number of soap cakes in 6 cartons is _____.

∵ Number of soap cakes = 84
∵ Number of cartons = 6
∴ Total number of soap cakes = 84 × 6 = 504

4. A bus can carry 45 passengers. How many passengers can 9 such buses carry?

Number of passengers in 9 buses is _____.

∵ Number of passengers = 45
∴ Number of buses = 9
∴ Total number of passengers = 45 × 9 = 405

5. Each packet has 124 notebooks. How many books will 6 such packets have?

Number of notebooks in 6 packets is _____.

Number of notebooks = 124
Number of packets = 6
∴ Total number of notebooks = 124 × 6 = 744

6. Each wagon can carry 104 bags. How many bags can 7 such wagons carry?

7 wagons can carry _____ bags.

Number of bags = 104
Number of wagons = 7
∴ Total number of bags = 104 × 7 = 728

7. Each cart can carry 97 items. How many items can 10 such cart carry ?

97 × 10 = 970

_____ carts can carry _____ items.

REVIEW EXERCISES

1. Multiply:

(a) $43 \times 6 = 258$

(b) $121 \times 7 = 847$

(c) $124 \times 8 = 992$

(d) $107 \times 9 = 963$

2. Each carton has 209 items. How many items will 4 such cartons have?

$209 \times 4 = 836$

3. Multiply the sum of 326 and 89 by 2.

$326 \times 89 = 830$

4. Subtract 234 from 456 and multiply the product by 3.

$456 - 234 = 222$

$\therefore 222 \times 3 = 666$ Ans

5. Multiply 218 by 4 and round the product to nearest tens.

$218 \times 4 = 872$ ∴ nearest tens $= 870$ Ans