

**SESSION : 7**  
**CLASS : IV**  
**SUBJECT : MATHEMATICS**  
**CHAPTER NUMBER : 6**  
**CHAPTER NAME : MULTIPLICATION**  
**SUBTOPIC : Exercise-6 A &**  
**PROPERTIES OF MULTIPLICATION**

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**CHANGING YOUR TOMORROW**

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# MULTIPLICATION

Let us revise multiplication by 2-digit numbers.

Example - 1 98 by 98

**ANSWER**

	Th		H		
			T		
			<del>9</del>		
			8		
			7		→ 98 × 8
+	①	8	8	8	→ 98 × 90
			4		
		9,	2	6	
			4	0	0
				4	



## EXERCISE – 6(A)

Multiply in your Notebook.

(a)  $64 \times 45$

**ANSWER**

	Th		H		
			T		
			<del>0</del>		
			4		
			3		→ $64 \times 5$
+	2	2	5	5	→ $64 \times 40$
		0			
	2, 6	8	0	8 0	0



## EXERCISE – 6(A)

Multiply in your Notebook.

(b)  $58 \times 72$

**ANSWER**

	Th		H		
			T		
			<del>0</del>		
			x		
			5		
			8		
			7		
			6		
			6		
			7		
			0		
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			7		

# EXERCISE – 6(A)

Multiply in your Notebook.

(c)  $49 \times 36$

**ANSWER**

	Th		H		
			T		
			<del>0</del>		
			<del>9</del>		
			9		
		①	2		
			9		→ $49 \times 6$
+		1	9	4	→ $49 \times 30$
			4		
			1, 7 7	4 6 0	4



# EXERCISE – 6(A)

Multiply in your Notebook.

(d)  $82 \times 27$

**ANSWER**

	Th		H		
			T		
			<del>0</del>		
			<del>2</del>		
		①			
			5		→ $82 \times 7$
	①		7	6	→ $82 \times 20$
+		1			
			4		
		2, 4 2	4	1 0	4



## EXERCISE – 6(A)

Multiply in your Notebook.

(e)  $94 \times 89$

**ANSWER**

	Th		H		
			T		
			<del>0</del>		
			x		
			4		
			8		→ $94 \times 9$
+	①		9		
		7	4	5	→ $94 \times 80$
			6		
		8,	2	3	
			6	0	6



# PROPERTIES OF MULTIPLICATION

1. When a number is multiplied by 1, then the product is always the number itself.

## EXAMPLE

$$9,784 \times 1 = 9,784$$

$$24,623 \times 1 = 24,623$$





# PROPERTIES OF MULTIPLICATION

2. When a number is multiplied by 0, then the product is always 0.

## EXAMPLE

$$867 \times 0 = 0$$

$$98,999 \times 0 = 0$$



# PROPERTIES OF MULTIPLICATION

3. **Commutative property of multiplication** : when two numbers are multiplied, the product of these numbers will not change even when the order of the numbers is changed.

## EXAMPLE

$$3,113 \times 26 = 80,938$$

$$26 \times 31,13 = 80,938$$

$$3,113 \times 26 = 26 \times 3,113$$



# PROPERTIES OF MULTIPLICATION

4. **Associative property of multiplication** : when two or more numbers are grouped and multiplied, the product does not change even if we change the groupings.

## EXAMPLE

$$(15 \times 321) \times 27 = 4,815 \times 27$$

$$15 \times (321 \times 27) = 15 \times 8,667$$

$$(15 \times 321) \times 27 = 15 \times (321 \times 27) = 1,30,005$$



# PROPERTIES OF MULTIPLICATION

**5. Distributive property of multiplication :** when multiplying a sum of two or more numbers by a number, we can first add the numbers and then multiply or we can multiply each added first with the number and then add the products. The answer remain the same.

## EXAMPLE

$$\begin{aligned}(15 + 11 + 3) \times 100 \\ &= 29 \times 100 \\ &= \mathbf{2,900}\end{aligned}$$

$$\begin{aligned}(15 + 11 + 3) \times 100 \\ &= (15 \times 100) + (11 \times 100) + (3 \times 100) \\ &= 1,500 + 1,100 + 300 \\ &= \mathbf{2,900}\end{aligned}$$



## HOME ASSIGNMENT:

- Complete Exercise – 6 A in the notebook.**

# LEARNING OUTCOME:

**Students are able to recall multiplication by 2-digit numbers and understand the properties of multiplication.**

**THANKING YOU**  
**ODM EDUCATIONAL GROUP**

**SESSION : 8**  
**CLASS : IV**  
**SUBJECT : MATHEMATICS**  
**CHAPTER NUMBER : 6**  
**CHAPTER NAME : MULTIPLICATION**  
**SUBTOPIC : PROPERTIES OF MULTIPLICATION  
& MULTIPLYING BY 10,100,1000**

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# PROPERTIES OF MULTIPLICATION

1. When a number is multiplied by 1, then the product is always the number itself.

## EXAMPLE

$$9,784 \times 1 = 9,784$$

$$24,623 \times 1 = 24,623$$



# PROPERTIES OF MULTIPLICATION

2. When a number is multiplied by 0, then the product is always 0.

## EXAMPLE

$$867 \times 0 = 0$$

$$98,999 \times 0 = 0$$



# PROPERTIES OF MULTIPLICATION

3. **Commutative property of multiplication** : when two numbers are multiplied, the product of these numbers will not change even when the order of the numbers is changed.

## EXAMPLE

$$3,113 \times 26 = 80,938$$

$$26 \times 31,13 = 80,938$$

$$3,113 \times 26 = 26 \times 3,113$$



# PROPERTIES OF MULTIPLICATION

4. **Associative property of multiplication** : when two or more numbers are grouped and multiplied, the product does not change even if we change the groupings.

## EXAMPLE

$$(15 \times 321) \times 27 = 4,815 \times 27$$

$$15 \times (321 \times 27) = 15 \times 8,667$$

$$(15 \times 321) \times 27 = 15 \times (321 \times 27) = 1,30,005$$



# PROPERTIES OF MULTIPLICATION

**5. Distributive property of multiplication :** when multiplying a sum of two or more numbers by a number, we can first add the numbers and then multiply or we can multiply each added first with the number and then add the products. The answer remain the same.

## EXAMPLE

$$\begin{aligned}(15 + 11 + 3) \times 100 \\ &= 29 \times 100 \\ &= \mathbf{2,900}\end{aligned}$$

$$\begin{aligned}(15 + 11 + 3) \times 100 \\ &= (15 \times 100) + (11 \times 100) + (3 \times 100) \\ &= 1,500 + 1,100 + 300 \\ &= \mathbf{2,900}\end{aligned}$$



# MULTIPLYING A NUMBER BY 10, 100, 1000, ETC.

This method explains the shortcuts for multiplying any number by 10, 100 or 1000.

1. If we multiply any number by 10, then add one zero at the right side of the number.

**EXAMPLE**  $251 \times 10 = 2,510$

Here, 0 is added on the right side of 251.



# MULTIPLYING A NUMBER BY 10, 100, 1000, ETC.

2. If we multiply any number by 100,  
then add two zeroes at the end of the  
number.

**EXAMPLE**  $364 \times 100 = 36,400$

$$93,201 \times 100 = 93,20,100$$



## MULTIPLYING A NUMBER BY 10, 100, 1000, ETC.

3. If we multiply any number by 1,000, then add three zeroes at the end of the number.

**EXAMPLE**  $212 \times 1000 = 2,12,000$

$7,646 \times 1000 = 76,46,000$





## EXERCISE – 6(B)

1. Multiply each given number by  
10.

### ANSWER

$$a) \quad = \quad 408 \times 10 = 4,080$$

$$b) \quad = \quad 128 \times 10 = 1,280$$

$$c) \quad = \quad 89 \times 10 = 890$$

$$d) \quad = \quad 930 \times 10 = 9,300$$

930



## EXERCISE – 6(B)

2. Multiply each given number by 100.

### ANSWER

$$a) \quad = \quad 47 \times 100 = 4,700$$

$$b) \quad = \quad 708 \times 100 = 70,800$$

$$c) \quad = \quad 568 \times 100 = 56,800$$

$$d) \quad = \quad 7540 \times 100 = 7,54,000$$

7540



## EXERCISE – 6(B)

3. Multiply each given number by 1000.

### ANSWER

$$a) \quad = \quad 64 \times 1000 = 64,000$$

$$b) \quad = \quad 2310 \times 1000 = 23,10,000$$

$$c) \quad = \quad 464 \times 1000 = 4,64,000$$

$$d) \quad = \quad 625 \times 1000 = 6,25,000$$

625



## HOME ASSIGNMENT:

- Complete Exercise – 6 B in your note book.**

# LEARNING OUTCOME:

**Students are able to understand the properties of multiplication and multiplying any number by 10,100 or 1000.**

**THANKING YOU**  
**ODM EDUCATIONAL GROUP**

**THANKING YOU**  
**ODM EDUCATIONAL GROUP**

**SESSION : 9**  
**CLASS : IV**  
**SUBJECT : MATHEMATICS**  
**CHAPTER NUMBER : 6**  
**CHAPTER NAME : MULTIPLICATION**  
**SUBTOPIC : MULTIPLYING LARGER NUMBERS  
BY A 2-DIGIT NUMBER, EX-6 C**

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# MULTIPLYING LARGER NUMBERS BY A 2-DIGIT NUMBER

## EXAMPLE

Multiply 6,748 by 27

	L	TTh	Th	H
		T	0	7
	4	8		x
<hr/>				
	2	7	2	
	4	7	2	
+ 1	3	4	9	
<hr/>				
1,	8	9,	1	
	9	6		

**Step 1 :** Multiply 6,748 by 7 and write the product as

shown.

**Step 2 :** Before multiplying with the tens digit of the multiplier, write **0** in the ones

place as shown.

**Step 3 :** Multiply 6,748 by 2 and write the product as

shown.

**Step 4 :** Add the products to get the final answer.



## EXERCISE – 6(C)

Multiply in your notebook.

a)  $4,142 \times 16$

**ANSWER**

$$\begin{array}{r} 4,142 \\ \times 16 \\ \hline 2484 \\ + 41420 \\ \hline 66272 \end{array}$$

①

→  $4,142 \times 6$

→  $4,142 \times 10$



## EXERCISE – 6(C)

Multiply in your notebook.

b)  $8,148 \times 19$

**ANSWER**

$$\begin{array}{r} \phantom{+} 8,148 \\ \times \phantom{+} 19 \\ \hline \phantom{+} 7392 \\ + 81480 \\ \hline 1,547,620 \end{array}$$

→  $8,148 \times 9$   
→  $8,148 \times 10$



## EXERCISE – 6(C)

Multiply in your notebook.

c)  $3,163 \times 98$

**ANSWER**

$$\begin{array}{r} \phantom{+} \phantom{2} \phantom{3} \phantom{8} \phantom{0} \phantom{4} \\ \phantom{+} \phantom{2} \phantom{3} \phantom{8} \phantom{0} \phantom{4} \\ \hline 3,163 \phantom{0} \\ \phantom{+} 2380 \\ \hline 3,604,979 \phantom{0} \\ \hline \end{array}$$

$\longrightarrow 3,163 \times 8$   
 $\longrightarrow 3,163 \times 90$



## EXERCISE – 6(C)

Multiply in your notebook.

d)  $9,076 \times 63$

**ANSWER**

$$\begin{array}{r} \phantom{+} \phantom{5} \phantom{2} \phantom{4} \phantom{2} \phantom{4} \\ \phantom{+} \phantom{5} \phantom{2} \phantom{4} \phantom{2} \phantom{4} \\ \hline 5,578 \phantom{1,6788} \\ \hline \end{array}$$

9, 0  
7  
~~7~~  
6

①

2 73

+ 5 2 4 2 4

5, 5 7 8 1, 6 7 8 8

→  $9,076 \times 3$

→  $9,076 \times 60$





## EXERCISE – 6(C)

Multiply in your notebook.

f)  $67,368 \times 12$

**ANSWER**

	6	7,	3	
		6	8	
①		①	①	<b>1</b>
	1	3	<b>4</b>	→ 67,368 × 2
+	6	7	<b>6</b>	→ 67,368 × 10
	<b>8,</b>	<b>0</b>	<b>6</b>	<b>8,</b>
			<b>4</b>	<b>8</b>
			<b>1</b>	<b>6</b>



## **HOME ASSIGNMENT:**

- Complete Exercise – 6 C in your note book.**



# LEARNING OUTCOME:

**Students are able to understand how to multiply larger numbers by a 2-digit number.**

**THANKING YOU**  
**ODM EDUCATIONAL GROUP**

**SESSION : 10**  
**CLASS : IV**  
**SUBJECT : MATHEMATICS**  
**CHAPTER NUMBER : 6**  
**CHAPTER NAME : MULTIPLICATION**  
**SUBTOPIC : MULTIPLYING BIGGER NUMBERS**  
**BY A 3-DIGIT NUMBER, EX-6 D Q.NO.1**

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# MULTIPLICATION TABLE

1.  $25 \times 9 = \underline{\quad}$

2.  ~~$19 \times 3 = \underline{\quad}$~~

3.  ~~$13 \times 8 = \underline{\quad}$~~

4.  ~~$30 \times 4 = \underline{\quad}$~~

5.  ~~$27 \times 2 = \underline{\quad}$~~

6.  ~~$22 \times 6 = \underline{\quad}$~~

7.  ~~$30 \times 5 = \underline{\quad}$~~

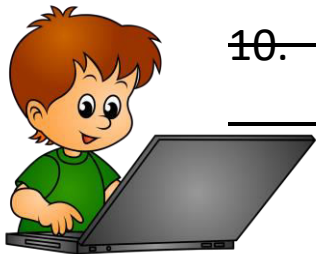
8.  ~~$10 \times 4 = \underline{\quad}$~~

9.  ~~$11 \times 7 = \underline{\quad}$~~

10.  ~~$36 \times 1 = \underline{\quad}$~~

\_\_\_\_\_

10	333	96	457	99	236	112	123
201	221	225	369	458	50	316	336
252	122	364	121	57	60	70	120
15	25	300	332	66	96	78	29
54	121	150	122	39	911	101	109
119	80	93	150	776	741	346	409
601	83	189	230	135	33	77	98
333	393	92	104	66	60	70	27
133	36	501	525	252	30	91	55
321	325	226	40	224	42	45	132



# MULTIPLYING BIGGER NUMBERS BY A 3-DIGIT NUMBER

**EXAMPLE - 1** Multiply 742 by 132.

$$\begin{array}{r} 742 \\ \times 132 \\ \hline 1484 \end{array} \rightarrow 742 \times 2 = 1,484$$

**Step-1 :** Multiply 742 by 2 and write the product below as shown.



# MULTIPLYING BIGGER NUMBERS BY A 3-DIGIT NUMBER

**EXAMPLE - 1** Multiply 742 by 132.

**Step-2 :** put a **0** at ones' place and then multiply 742 by 3 as usual.

Write

the product as shown.

$$\begin{array}{r} 742 \\ \times 132 \\ \hline 1484 \\ 22260 \\ \hline \end{array}$$

→  $742 \times 30 = 22,260$



# MULTIPLYING BIGGER NUMBERS BY A 3-DIGIT NUMBER

**EXAMPLE - 1** Multiply 742 by 132.

$$\begin{array}{r} 742 \\ \times 132 \\ \hline 1484 \\ 22260 \\ 74200 \\ \hline \end{array}$$

→  $742 \times 100 = 74,200$

**Step-3 :** Put **two zeroes** at the ones' and tens' place before multiplying

742 by 1. write shown.

the product as



# MULTIPLYING BIGGER NUMBERS BY A 3-DIGIT NUMBER

**EXAMPLE - 1** Multiply 742 by 132.

**Step-4 :** Add the three products and write the  
answer below as  
shown.

$$\begin{array}{r} 742 \\ \times 132 \\ \hline 1484 \\ 22260 \\ 74200 \\ \hline 97944 \end{array}$$





# MULTIPLYING BIGGER NUMBERS BY A 3-DIGIT NUMBER

**EXAMPLE - 2** Multiply 6,378 by 315.

Multiply  $6,378 \times 5$ .

$$\begin{array}{r} \overset{1}{6} \overset{3}{3} \overset{4}{7} 8 \\ \times 315 \\ \hline 31890 \end{array}$$

Multiply  $6,378 \times 10$ .

$$\begin{array}{r} 6378 \\ \times 10 \\ \hline 63780 \end{array}$$

Multiply  $6,378 \times 300$ .

$$\begin{array}{r} \overset{1}{6} \overset{2}{3} \overset{2}{7} 8 \\ \times 300 \\ \hline 1913400 \end{array}$$

Add the products.

$$\begin{array}{r} 6378 \\ \times 315 \\ \hline 31890 \\ 63780 \\ + 1913400 \\ \hline 2009070 \end{array}$$



# EXERCISE – 6(D)

1. Multiply.

a) Four hundred ninety six by two hundred sixty two.

**ANSWER**

$$\begin{array}{r} \phantom{0000}4 \\ \phantom{0000}9 \\ \phantom{0000}6 \\ \hline \textcircled{1} \phantom{000}9 \\ \phantom{000}9 \\ \phantom{00}+ \phantom{0}9 \\ \hline 1,29,950 \\ \hline \end{array}$$

$9 \longrightarrow 496 \times 2$   
 $9 \longrightarrow 496 \times 60$   
 $9 \longrightarrow 496 \times 200$



# EXERCISE – 6(D)

1. Multiply.

b) Seven thousand eighteen by one hundred twenty.

**ANSWER**

$$\begin{array}{r} 7018 \\ \times 120 \\ \hline \textcircled{1} \\ 0000 \longrightarrow 7018 \times 0 \\ 14036 \longrightarrow 7018 \times 20 \\ + 70180 \longrightarrow 7018 \times 100 \\ \hline 8,418,210 \end{array}$$



## EXERCISE – 6(D)

1. Multiply.

c) Nine thousand two hundred fifty five by three hundred ten.

**ANSWER**

			9	2	
			<del>5</del>	<del>5</del>	
<hr style="border: 1px solid red;"/>					
			0	0	→ 9255 × 0
		①	<del>9</del>	<del>9</del>	→ 9255 × 10
		9	<del>5</del>	<del>0</del>	→ 9255 × 300
+	①	2	7	5	
<hr style="border: 1px solid red;"/>					
	2	8,	6	5	9,
			0	0	5
				0	0
<hr style="border: 1px solid red;"/>					



## EXERCISE – 6(D)

1. Multiply.

d) Eight hundred twenty five by four hundred eighty six.

**ANSWER**

$$\begin{array}{r} 825 \\ \times 486 \\ \hline 4950 \\ 6500 \\ 33000 \\ \hline 4,00,950 \end{array}$$

① 6 5 0 → 825 × 6  
① 6 5 0 → 825 × 80  
① 3 3 0 0 → 825 × 400

**4, 0 0, 9<sup>0</sup> 5 0**



# EXERCISE – 6(D)

1. Multiply.

e) Seventy thousand five hundred sixteen by one hundred eighteen.

**ANSWER**

$$\begin{array}{r} \phantom{00000} \times \phantom{00000} 70516 \\ \phantom{00000} \times \phantom{00000} 518 \\ \hline \phantom{00000} \times \phantom{00000} 8 \\ \phantom{00000} \times \phantom{00000} 10 \\ \phantom{00000} \times \phantom{00000} 100 \\ \hline 8326088 \end{array}$$

Annotations for the multiplication process:

- $4 \longrightarrow 70516 \times 8$
- $8 \longrightarrow 70516 \times 10$
- $6 \longrightarrow 70516 \times 100$



# LEARNING OUTCOME:

**Students are able to understand how to multiply bigger numbers by a 3-digit number.**

**THANKING YOU**  
**ODM EDUCATIONAL GROUP**



**SESSION : 11**  
**CLASS : IV**  
**SUBJECT : MATHEMATICS**  
**CHAPTER NUMBER : 6**  
**CHAPTER NAME : MULTIPLICATION**  
**SUBTOPIC : MULTIPLYING BIGGER NUMBERS**  
**BY A 3-DIGIT NUMBER, EX-6 D Q.NO.2**

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## EXERCISE – 6(D)

2. Find the product.

a)  $729 \times 341$

**ANSWER**

				×	7		
					<del>3</del>		
					<del>2</del>		
					9	→	$729 \times 1$
					<del>1</del>		
					9	→	$729 \times 40$
					<del>0</del>		
					8	→	$729 \times 300$
					0		
					0		
					9		
					8		
					0		
					5		
					8		
					7		
					4		
					2		
					0		
					2		
					9		
					7		
					2		
					9		
					7		

**2, 4 7 8, 5 0 8 9**



## EXERCISE – 6(D)

2. Find the product.

b)  $565 \times 525$

**ANSWER**

	5	6	5	
		×	<b>5</b>	
			—	
		①	<b>2</b>	
		2	<b>8</b>	→ $565 \times 5$
	1	<del>2</del>	<b>5</b>	→ $565 \times 20$
+	2	<del>0</del>	<b>0</b>	→ $565 \times 500$
			—	
	2, 9	5	6, 6	0
			2	5
			—	



## EXERCISE – 6(D)

2. Find the product.

c)  $902 \times 436$

**ANSWER**

9	0	2	
		×	4
	①		3
	①	5	4
	2	<del>7</del>	0
+	3	6	0
3,	9	8	3,
		2	0
		7	2

$\longrightarrow 902 \times 6$   
 $\longrightarrow 902 \times 30$   
 $\longrightarrow 902 \times 400$



## EXERCISE – 6(D)

2. Find the product.

d)  $783 \times 298$

**ANSWER**

$$\begin{array}{r} \phantom{0}783 \\ \phantom{00} \times 298 \\ \hline \phantom{000} 624 \longrightarrow 783 \times 8 \\ \phantom{00} 706 \longrightarrow 783 \times 90 \\ \phantom{0} 156 \longrightarrow 783 \times 200 \\ \hline 2,363,3034 \end{array}$$



## EXERCISE – 6(D)

2. Find the product.

e)  $524 \times 421$

**ANSWER**

	5	2	4	
			×	<b>4</b>
			—	<b>2</b>
		①	5	<b>2</b> → $524 \times 1$
	①	①	0	<b>4</b> → $524 \times 20$
2	0	0	0	<b>6</b> → $524 \times 400$
			—	
	<b>2,</b>	<b>2</b>	<b>0,</b>	<b>6</b> <sup>0</sup>
				<b>0</b>
				<b>4</b>



## EXERCISE – 6(D)

2. Find the product.

f)  $9,307 \times 678$

**ANSWER**

			9		3		0	
								7
								<b>6</b>
<hr/>								
			①		①		①	<b>7</b>
				7		4		<b>8</b> → $9307 \times 8$
	②			6		5		<b>6</b> → $9307 \times 70$
		①		5		4		<b>4</b> → $9307 \times 600$
+		5		5		8		<b>4</b>
<hr/>								
	<b>6</b>	<b>3,</b>	<b>1</b>	<b>2</b>	<b>0,</b>	<b>1</b>	<b>0</b>	<b>4</b>
								<b>6</b>
<hr/>								



## EXERCISE – 6(D)

2. Find the product.

g)  $2,892 \times 209$

**ANSWER**

		2	8	9	
			×	<del>2</del>	
<hr/>					
		①		0	
		2	6	0	→ $2892 \times 9$
		0	0	0	→ $2892 \times 0$
+	①	7	0	0	→ $2892 \times 200$
	5		8	4	
<hr/>					
		6,	0	4,	4 <sup>0</sup>
<hr/>					
			2	8	
<hr/>					





## EXERCISE – 6(D)

2. Find the product.

h)  $8,098 \times 789$

**ANSWER**

			8		0		9	
					×		<del>9</del>	
			①		②		①	8
			7		2	8	→	8098 × 9
	①		6		<del>8</del>	<del>7</del>	→	8098 × 80
	+	①	5		6	8	→	8098 × 700
			6		6	0		
			6	3,	8	9,	3	0
			2		2			







## HOME ASSIGNMENT:

- Complete Exercise – 6 D Q.NO. 2 in your note book.**

# LEARNING OUTCOME:

**Students are able to understand how to multiply bigger numbers by a 3-digit number.**

**THANKING YOU**  
**ODM EDUCATIONAL GROUP**

**SESSION : 12**  
**CLASS : IV**  
**SUBJECT : MATHEMATICS**  
**CHAPTER NUMBER : 6**  
**CHAPTER NAME : MULTIPLICATION**  
**SUBTOPIC : WORD PROBLEMS ON  
MULTIPLICATION, Q.NO. 1 TO 4**

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**CHANGING YOUR TOMORROW**

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# WORD PROBLEMS

2. A man bought 120 bags of apples. Each bag contains 2,121 apples.  
How many apples are there in all?

**ANSWER** Number of apples each bag contains = **2,121**

Number of apples in 120 bags =

$$\begin{array}{r} \phantom{0000} 2 \phantom{00} 1 \\ \phantom{0000} \times \phantom{00} 2 \phantom{00} 0 \\ \hline \phantom{0000} 0 \phantom{00} 0 \phantom{00} \longrightarrow 2121 \times 0 \\ \phantom{000} 4 \phantom{00} 0 \phantom{00} \longrightarrow 2121 \times 20 \\ \phantom{00} + 2 \phantom{00} 0 \phantom{00} \longrightarrow 2121 \times 100 \\ \hline 2, \phantom{0} 5 \phantom{00} 1 \phantom{000} 4, \phantom{00} 5 \phantom{000} 0 \phantom{00} 2 \phantom{000} 0 \end{array}$$

So, **2,54,520** apples are there in all.



# WORD PROBLEMS

3. A shopkeeper sells 16,520 packets of milk. Each packet costs Rs.25.  
how much money did he get at the end?

**ANSWER** Cost of each milk packet =Rs.25

The cost of 16,520 packets of milk =

		<b>1</b>		<b>6</b>		<b>5</b>		
				<del><b>2</b></del>		<del><b>0</b></del>		
			①			<b>5</b>		
		①	<b>8</b>	<b>2</b>	<b>6</b>	<b>5</b>	→	<b>16520 × 5</b>
	+		<b>3</b>	<del><b>0</b></del>	<del><b>0</b></del>	<del><b>0</b></del>	→	<b>16520 × 20</b>
			<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		<b>4,</b>	<b>1</b>	<b>3,</b>	<b>0</b>	<b>0</b>	<b>0</b>	

Hence, he got Rs.4,13,000 at the end.



# WORD PROBLEMS

4. Mohan distributed toffees on his birthday. There were 8,552 students and 25 teachers whom he distributed 4 toffees each. How many toffees did he distributed?

**ANSWER** Total number of students = 8,552

Total number of teachers = 25

Total number of persons =  $8552 + 25 =$

$$\begin{array}{r} 8 \quad 5 \\ + \quad 25 \\ \hline 8, \quad 5 \quad 7 \quad 7 \\ \hline 5 \end{array}$$



# WORD PROBLEMS

He distributed toffees to each person = 4

Total toffees distributed to **8,577** people

$$\begin{array}{r} \textcircled{2} \quad \textcircled{3} \quad \textcircled{2} \\ 8 \quad 5 \quad 7 \\ \times \quad \quad 7 \\ \hline 3 \quad 4, \quad 3 \quad 0 \quad 8 \\ \hline 4 \end{array}$$

Therefore, **34,308** total toffees distributed by him.



## HOME ASSIGNMENT:

- Do word problems on multiplication Q.NO. 5 & 6 in your notebook.

# LEARNING OUTCOME:

**Students are able to understand how to use the process of multiplication to solve the word problems.**

**THANKING YOU**  
**ODM EDUCATIONAL GROUP**

**SESSION : 13**  
**CLASS : IV**  
**SUBJECT : MATHEMATICS**  
**CHAPTER NUMBER : 6**  
**CHAPTER NAME : MULTIPLICATION**  
**SUBTOPIC : WORD PROBLEMS ON  
MULTIPLICATION, Q.NO. 7 TO 10**

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**CHANGING YOUR TOMORROW**

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# WORD PROBLEMS

7. In a park there are 31,250 flower plants and 78,178 trees in a row.  
Calculate the total number of trees and plants in 15 such rows.

**ANSWER** Total number of flower plants = 31,250

Total number of trees = 78,178

Total number of flowers and trees in a row = 31,250 + 78,178 =

$$\begin{array}{r} \phantom{+} \phantom{0} \phantom{9} \phantom{4} \phantom{7} \phantom{2} \phantom{8} \\ + \phantom{0} \phantom{9} \phantom{4} \phantom{7} \phantom{2} \phantom{8} \\ \hline 1,09,4728 \end{array}$$



# WORD PROBLEMS

Total trees and flowers in a row = **1,09,428**

Total trees and flowers in **15** rows =

			<b>1</b>		<b>0</b>		<b>9</b>		
					<del><b>4</b></del>		<del><b>2</b></del>		
					<b>8</b>		<b>8</b>		
		①	①		①				
				<b>5</b>	<b>4</b>	<b>7</b>	<b>→</b>	<b>109428 × 5</b>	
<b>+</b>	<b>1</b>		<b>0</b>		<del><b>9</b></del>	<b>4</b>	<b>→</b>	<b>109428 × 10</b>	
				<b>2</b>	<b>8</b>	<del><b>0</b></del>			
	<b>1</b>	<b>6,</b>	<b>4</b>	<b>1,</b>	<b>4</b>	<b>2</b>		<b>0</b>	

Thus, the total number of trees and flowers in **15** rows are **16,41,420** .





# WORD PROBLEMS

9. A man has 10 notes of Rs.2,000 and 19 notes of Rs.500. How much money did he have?

**ANSWER** Number of **Rs.2,000** notes = 10

He has total money of **2,000** notes =

$$\begin{array}{r} 2000 \\ \times 10 \\ \hline 0000 \longrightarrow 2000 \times 0 \\ + 20000 \longrightarrow 2000 \times 10 \\ \hline 20000 \\ \hline \end{array}$$





# WORD PROBLEMS

So, the man has total money of 2,000 notes = **20,000**

And total money of 500 notes = **9,500**

Then he has total money with him = **20,000 + 9,500 =**

$$\begin{array}{r} 2 \quad 0 \quad 0 \\ + \quad 9 \quad 5 \quad 0 \\ \hline 2 \quad 9, \quad 5 \quad 0 \quad 0 \\ \hline \end{array}$$

Thus, the man has total money of **Rs.29,500**.



# WORD PROBLEMS

10. A factory produces 3,500 boxes a day. How many boxes will be produced in the month of March and April (March = 31 days, April = 30 days)?

**ANSWER** Total number of days in March = 31

Total number of days in April = 30

Total number of days = 31 + 30 = 3

$$\begin{array}{r} 1 \\ + 3 \\ \hline 6 \quad 0 \\ \hline \end{array}$$



# WORD PROBLEMS

The factory produces the boxes in a day = **3,500**

Then the factory will produce boxes in 61 days =

$$\begin{array}{r} \phantom{+} \phantom{2} \phantom{1} \phantom{0} \phantom{3} \phantom{5} \phantom{0} \phantom{0} \\ \phantom{+} \phantom{2} \phantom{1} \phantom{0} \phantom{3} \phantom{5} \phantom{0} \phantom{0} \\ + \phantom{2} \phantom{1} \phantom{0} \phantom{3} \phantom{5} \phantom{0} \phantom{0} \\ \hline 2, \phantom{1} \phantom{0} \phantom{3}, \phantom{5} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \\ \hline \end{array}$$

$\begin{array}{r} 3 \phantom{0} \phantom{0} \\ \times 80 \\ \hline 3 \phantom{0} \phantom{0} \\ \phantom{3} \phantom{0} \phantom{0} \phantom{0} \\ \hline \end{array}$   $\longrightarrow 3500 \times 1$   
 $\phantom{3} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0} \phantom{0}$   $\longrightarrow 3500 \times 60$

Thus, **2,13,500** boxes will be produced in the month of March and April.





# LEARNING OUTCOME:

**Students are able to understand how to use the process of multiplication in solving the story sums.**

**THANKING YOU**  
**ODM EDUCATIONAL GROUP**

**SESSION : 14**  
**CLASS : IV**  
**SUBJECT : MATHEMATICS**  
**CHAPTER NUMBER : 6**  
**CHAPTER NAME : MULTIPLICATION**  
**SUBTOPIC : DOUBT CLEARING AND CLASS TEST**

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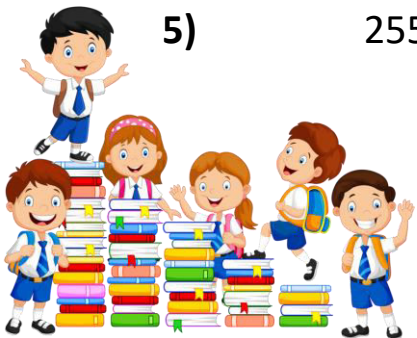
**CHANGING YOUR TOMORROW**

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## A. Fill in the blanks.

(1×5=5)

- 1) When a number is multiply by 1, then the product is always the .
- 2) When a number is multiply by 0, then the product is always the .
- 3)  $26 \times 52 = \underline{\hspace{2cm}} \times 26.$
- 4)  $(16 \times 320) \times 15 = 16 \times (\underline{\hspace{1cm}} \times 15).$
- 5)  $255 \times 100 = \underline{\hspace{2cm}}.$



# CLASS TEST

FULL MARK - 15

## B. Do as Directed.

(2×2=4)

6)  $8344 \times 24$

7)  $50,515 \times 320$



## C. Word Problem.

**(3×2=6)**

- 8) The cost of a radio is Rs.1,550. A shopkeeper bought 40 radios for selling. Then how much paid for 40 radios?  
he
- 9) What will be the cost of 24 cars, if 1 car cost Rs.2,25,220?



**CLASS TEST**

**FULL MARK - 15**

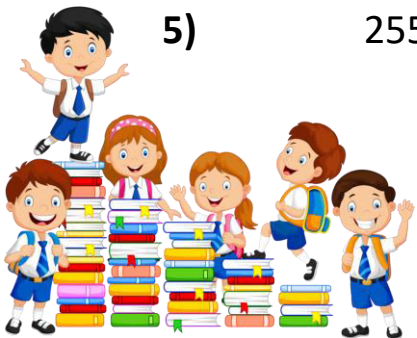
**ANSWER**



## A. Fill in the blanks.

(1×5=5)

- 1) When a number is multiply by 1, then the product is always ~~the~~ **Number it self**
- 2) When a number is multiply by 0, then the product is always the **0**
- 3)  $26 \times 52 = \underline{52}$   $\times 26$ .
- 4)  $(16 \times 320) \times 15 = 1 \underline{620}$   $\times 15$ .
- 5)  $255 \times 100 = \underline{25500}$ .





## B. Do as Directed.

(2×2=4)

6)  
24

8,344 ×

**8**

**3**

**4**

×

**4**

①

①

①

①

**4**

**3**

**3**

**3**

→ 8344 × 4

+

**1**

**6**

**7**

**8**

→ 8344 × 20

**8**

**0**

**2,**

**0**

**0,**

**2**

**5**

**6**





# CLASS TEST

FULL MARK - 15

## C. Word Problem.

(3×2=6)

- 8) The cost of a radio is `1,550 a shopkeeper bought 40 radios for selling. Then how much he paid for 40 radios?

**ANSWER** The cost of a radio = `1,550

The cost of 40 radios =

$$\begin{array}{r} 1550 \\ \times 40 \\ \hline 000 \\ + 62000 \\ \hline 62000 \end{array}$$

→ 1550 × 0

→ 1550 × 40

Thus, he paid `62,000 for 40 radios.



## C. Word Problem.

(3×2=6)

- 9) What will be the cost of 24 cars, if 1 car cost `2,25,220?

**ANSWER** The cost of a car = `2,25,220

The cost of 24 cars =

	2	2	5	2			
			<del>2</del>	<del>0</del>			
					4		
①	9	0	0	8	→ 2,25,220 × 4		
+	4	5	0	0	→ 2,25,220 × 20		
					0		
	5	4,	0	5,	2	8	0

Thus, `54,05,280 is the cost of 24 cars.



# LEARNING OUTCOME:

**Students are able to recall the the whole chapter of multiplication through this class test.**

**THANKING YOU**  
**ODM EDUCATIONAL GROUP**