

Class: 3 Subject: Mathematics

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Chapter: Multiplication

Lecture -1 notes

The multiplication of whole numbers may be thought as a repeated addition . At the end of the chapter, we will able to.

> Tell and write Multiplication table 1 to 20.

Identify terms of multiplication.

Instructions:

✓ Read your book properly

✓ Recite times table every day'

✓ To solve calculation quickly you have to memorize times table without any short – cut method.

Part-1

Basic concept of multiplication:

How many apples are there the in this picture?

By counting one by one in total 12 apples.

By group counting

There are 3 groups in the pictures.

Each groups has 4 apples.

$$4 + 4 + 4 = 12$$



Here, the number four repeated three times. So, multiplication is when you take one number and add it together a number of times.

Multiplication table:

TABLE 1	TABLE 2	TABLE 3	TABLE 4	TABLE 5
1 X 1 = 1	$2 \times 1 = 2$	3 X 1 = 3	4 X 1 = 4	5 X 1= 5
1 X 2 = 2	2 X 2 = 4	3 X 2 = 6	4 X 2 = 8	5 X 2 = 10
1 X 3 = 3	$2 \times 3 = 6$	3 X 3 = 9	4 X 3 = 12	5 X 3 = 15
1 X 4 = 4	2 X 4 = 8	3 X 4 = 12	4 X 4 = 16	5 X 4 = 20
1 X 5 = 5	$2 \times 5 = 10$	3 X 5 = 15	$4 \times 5 = 20$	5 X 5= 25
1 X 6 = 6	$2 \times 6 = 12$	$3 \times 6 = 18$	$4 \times 6 = 24$	$5 \times 6 = 30$
1 X 7 = 7	$2 \times 7 = 14$	3 X 7 = 21	$4 \times 7 = 28$	5 X 7= 35
1 X 8 = 8	$2 \times 8 = 16$	3 X 8 = 24	$4 \times 8 = 32$	5 X 8 = 40
1 X 9 = 9	$2 \times 9 = 18$	$3 \times 9 = 27$	$4 \times 9 = 36$	$5 \times 9 = 45$
$1 \times 10 = 10$	$2 \times 10 = 20$	$3 \times 10 = 30$	$4 \times 10 = 40$	5 X 10 = 50
\sim	\sim	\sim	\sim	\sim
TABLE 6	TABLE 7	TABLE 8	TABLE 9	TABLE 10
6 X 1= 6	7 X 1= 7	8 X 1 = 8	9 X 1 = 9	10 X 1 = 10
6 X 2 = 12	7 X 2 = 14	8 X 2 = 16	9 X 2 = 18	10 X 2 = 20
6 X 3 = 18	7 X 3 = 21	8 X 3 = 24	9 X 3 = 27	10 X 3 = 30
6 X 4 = 24	7 X 4 = 28	8 X 4 = 32	9 X 4 = 36	10 X 4 = 40
6 X 5= 30	7 X 5= 35	8 X 5= 40	9 X 5= 45	10 X 5 = 50
6 X 6= 36	7 X 6 = 42	8 X 6= 48	9 X 6= 54	10 X 6 = 60
6 X 7= 42	7 X 7= 49	8 X 7 = 56	9 X 7 = 63	10 X 7 = 70
6 X 8 = 48	7 X 8 = 56	8 X 8= 64	9 X 8 = 72	10 X 8 = 80
6 X 9= 54	7 X 9 = 63	8 X 9 = 72	9 X 9 = 81	10 X 9 = 90
6 X 10 = 60	7 X 10 = 70	8 X 10 = 80	9 X 10 = 90	10 X 10 = 100
TABLE 11	TABLE 12	TABLE 13	TABLE I	TABLE 15
TABLE 11 11 X 1 = 11	TABLE 12 12 X 1 = 12	TABLE 13 13 X 1 = 13	TABLE 14 14 X 1 = 14	TABLE 15 15 X 1= 15
TABLE 11 11 X 1 = 11 11 X 2 = 22	TABLE 12 12 X 1 = 12 12 X 2 = 24	TABLE 13 13 X 1 = 13 13 X 2 = 26	TABLE 14 14 X 1 = 14 14 X 2 = 28	TABLE 15 15 X 1 = 15 15 X 2 = 30
TABLE 11 11 X 1 = 11 11 X 2 = 22 11 X 3 = 33	TABLE 12 $12 \ X \ 1 = \ 12$ $12 \ X \ 2 = \ 24$ $12 \ X \ 3 = \ 36$	TABLE 13 13 X 1 = 13 13 X 2 = 26 13 X 3 = 39	TABLE 14 14 X 1 14 14 X 2 28 14 X 3 42	TABLE 15 15 X 1 = 15 15 X 2 = 30 15 X 3 = 45
TABLE 11 11 X 1 = 11 11 X 2 = 22 11 X 3 = 33 11 X 4 = 44	TABLE 12 12 X 1 = 12 12 X 2 = 24 12 X 3 = 36 12 X 4 = 48	TABLE 13 13 X 1 = 13 13 X 2 = 26 13 X 3 = 39 13 X 4 = 52	TABLE 14 $14 \ X \ 1 = \ 14$ $14 \ X \ 2 = \ 28$ $14 \ X \ 3 = \ 42$ $14 \ X \ 4 = \ 56$	TABLE 15 15 X 1 = 15 15 X 2 = 30 15 X 3 = 45 15 X 4 = 60
TABLE 11 11 X 1 = 11 11 X 2 = 22 11 X 3 = 33 11 X 4 = 44 11 X 5 = 55	TABLE 12 $12 \ X \ 1 = \ 12$ $12 \ X \ 2 = \ 24$ $12 \ X \ 3 = \ 36$ $12 \ X \ 4 = \ 48$ $12 \ X \ 5 = \ 60$	TABLE 13 13 X 1 = 13 13 X 2 = 26 13 X 2 = 26 13 X 3 = 39 13 X 4 = 52 13 X 5 = 65	TABLE 14 $14 \ X \ 1 = \ 14$ $14 \ X \ 2 = \ 28$ $14 \ X \ 3 = \ 42$ $14 \ X \ 4 = \ 56$ $14 \ X \ 5 = \ 70$	TABLE 15 15 X 1 = 15 15 X 2 = 30 15 X 3 = 45 15 X 4 = 60 15 X 5 = 75
TABLE 11 11 X 1 = 11 11 X 2 = 22 11 X 3 = 33 11 X 4 = 44 11 X 5 = 55 11 X 6 = 66	TABLE 12 $12 \ X \ 1 = \ 12$ $12 \ X \ 2 = \ 24$ $12 \ X \ 3 = \ 36$ $12 \ X \ 4 = \ 48$ $12 \ X \ 5 = \ 60$ $12 \ X \ 6 = \ 72$	TABLE 13 13 X 1 = 13 13 X 2 = 26 13 X 3 = 39 13 X 3 = 39 13 X 4 = 52 13 X 5 = 65 13 X 6 = 78	TABLE 14 $14 \ X \ 1 = 14$ $14 \ X \ 2 = 28$ $14 \ X \ 3 = 42$ $14 \ X \ 4 = 56$ $14 \ X \ 5 = 70$ $14 \ X \ 6 = 84$	TABLE 15 $15 \ X \ 1 = \ 15$ $15 \ X \ 2 = \ 30$ $15 \ X \ 3 = \ 45$ $15 \ X \ 4 = \ 60$ $15 \ X \ 5 = \ 75$ $15 \ X \ 6 = \ 90$
TABLE 11 11 X 1 = 11 11 X 2 = 22 11 X 3 = 33 11 X 4 = 44 11 X 5 = 55 11 X 6 = 66 11 X 7 = 77	TABLE 1212X1 =1212X2 =2412X3 =3612X4 =4812X5 =6012X6 =7212X7 =84	TABLE 13 13 X 1 = 13 13 X 2 = 26 13 X 2 = 26 13 X 3 = 39 13 X 4 = 52 13 X 5 = 65 13 X 6 = 78 13 X 7 = 91	TABLE 14 14 X 1 = 14 14 X 2 = 28 14 X 3 = 42 14 X 3 = 42 14 X 4 = 56 14 X 5 = 70 14 X 6 = 84 14 X 7 = 98	TABLE 15 $15 \ X \ 1 = \ 15$ $15 \ X \ 2 = \ 30$ $15 \ X \ 3 = \ 45$ $15 \ X \ 4 = \ 60$ $15 \ X \ 5 = \ 75$ $15 \ X \ 6 = \ 90$ $15 \ X \ 7 = \ 105$
TABLE 11 11 X 1 = 11 11 X 2 = 22 11 X 3 = 33 11 X 4 = 44 11 X 5 = 55 11 X 6 = 66 11 X 7 = 77 11 X 8 = 88	TABLE 1212X1 =1212X2 =2412X3 =3612X4 =4812X5 =6012X6 =7212X7 =8412X8 =96	TABLE 13 13 X 1 = 13 13 X 2 = 26 13 X 3 = 39 13 X 3 = 39 13 X 4 = 52 13 X 5 = 65 13 X 6 = 78 13 X 7 = 91 13 X 8 = 104	TABLE 14 $14 \ X \ 1 = 14$ $14 \ X \ 2 = 28$ $14 \ X \ 3 = 42$ $14 \ X \ 3 = 42$ $14 \ X \ 4 = 56$ $14 \ X \ 5 = 70$ $14 \ X \ 6 = 84$ $14 \ X \ 7 = 98$ $14 \ X \ 8 = 112$	TABLE 15 $15 \ X \ 1 = 15$ $15 \ X \ 2 = 30$ $15 \ X \ 3 = 45$ $15 \ X \ 4 = 60$ $15 \ X \ 5 = 75$ $15 \ X \ 6 = 90$ $15 \ X \ 7 = 105$ $15 \ X \ 8 = 120$
TABLE 11 11 X 1 = 11 11 X 2 = 22 11 X 3 = 33 11 X 4 = 44 11 X 5 = 55 11 X 5 = 66 11 X 7 = 77 11 X 8 = 88 11 X 9 = 99	TABLE 1212X1 =1212X2 =2412X3 =3612X4 =4812X5 =6012X6 =7212X7 =8412X8 =9612X9 =108	TABLE 13 13 X 1 = 13 13 X 2 = 26 13 X 3 = 39 13 X 3 = 52 13 X 5 = 65 13 X 5 = 65 13 X 6 = 78 13 X 7 = 91 13 X 8 = 104 13 X 9 = 117	TABLE 14 $14 \ X \ 1 = 14$ $14 \ X \ 2 = 28$ $14 \ X \ 3 = 42$ $14 \ X \ 3 = 42$ $14 \ X \ 4 = 56$ $14 \ X \ 5 = 70$ $14 \ X \ 6 = 84$ $14 \ X \ 7 = 98$ $14 \ X \ 8 = 112$ $14 \ X \ 9 = 126$	TABLE 15 $15 \ X \ 1 = 15$ $15 \ X \ 2 = 30$ $15 \ X \ 3 = 45$ $15 \ X \ 4 = 60$ $15 \ X \ 5 = 75$ $15 \ X \ 6 = 90$ $15 \ X \ 7 = 105$ $15 \ X \ 8 = 120$ $15 \ X \ 9 = 135$
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TABLE 11 11 X 1 = 11 11 X 2 = 22 11 X 3 = 33 11 X 3 = 33 11 X 4 = 44 11 X 5 = 55 11 X 6 = 66 11 X 7 = 77 11 X 8 = 88 11 X 9 = 99 11 X 10 = 110	TABLE 12 $12 \ X \ 1 = \ 12$ $12 \ X \ 2 = \ 24$ $12 \ X \ 3 = \ 36$ $12 \ X \ 3 = \ 36$ $12 \ X \ 4 = \ 48$ $12 \ X \ 5 = \ 60$ $12 \ X \ 5 = \ 60$ $12 \ X \ 6 = \ 72$ $12 \ X \ 7 = \ 84$ $12 \ X \ 9 = \ 108$ $12 \ X \ 10 = \ 120$	TABLE 13 13 X 1 = 13 13 X 2 = 26 13 X 3 = 39 13 X 3 = 39 13 X 4 = 52 13 X 5 = 65 13 X 6 = 78 13 X 7 = 91 13 X 8 = 104 13 X 9 = 117 13 X 10 = 130	TABLE 14 $14 \ X \ 1 = 14$ $14 \ X \ 2 = 28$ $14 \ X \ 3 = 42$ $14 \ X \ 3 = 42$ $14 \ X \ 4 = 56$ $14 \ X \ 5 = 70$ $14 \ X \ 5 = 70$ $14 \ X \ 6 = 84$ $14 \ X \ 7 = 98$ $14 \ X \ 8 = 112$ $14 \ X \ 9 = 126$ $14 \ X \ 10 = 140$	TABLE 15 $15 \times 1 = 15$ $15 \times 2 = 30$ $15 \times 3 = 45$ $15 \times 4 = 60$ $15 \times 5 = 75$ $15 \times 6 = 90$ $15 \times 7 = 105$ $15 \times 9 = 135$ $15 \times 10 = 150$
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TABLE 11 11 X 1 = 11 11 X 2 = 22 11 X 3 = 33 11 X 3 = 33 11 X 4 = 44 11 X 5 = 55 11 X 5 = 55 11 X 6 = 66 11 X 7 = 77 11 X 8 = 88 11 X 9 = 99 11 X 10 = 110 TABLE 16 16 X 1 = 16 16 X 2 = 32 16 X 2 = 32	TABLE 12 12 X 1 = 12 12 X 2 = 24 12 X 3 = 36 12 X 4 = 48 12 X 5 = 60 12 X 6 = 72 12 X 7 = 84 12 X 8 = 96 12 X 9 = 108 12 X 10 = 120	TABLE 13 13 X 1 = 13 13 X 2 = 26 13 X 3 = 39 13 X 3 = 39 13 X 4 = 52 13 X 5 = 65 13 X 5 = 65 13 X 7 = 91 13 X 8 = 104 13 X 9 = 117 13 X 10 = 130 TABLE 18 18 X 1 = 18 18 X 2 = 36 19 X 2 = 54	TABLE 14 14 X 1 14 14 X 2 28 14 X 3 42 14 X 3 42 14 X 3 42 14 X 4 56 14 X 5 70 14 X 6 84 14 X 7 98 14 X 8 112 14 X 9 126 14 X 10 140	TABLE 15 15 X 1 = 15 15 X 2 = 30 15 X 3 = 45 15 X 3 = 45 15 X 4 = 60 15 X 5 = 75 15 X 6 = 90 15 X 7 = 105 15 X 8 = 120 15 X 9 = 135 15 X 10 = 150 TABLE 20 20 X 1 = 20 20 X 2 = 40 20 X 2 = 40
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TABLE 11 11 X 1 = 11 11 X 2 = 22 11 X 3 = 33 11 X 3 = 33 11 X 4 = 44 11 X 5 = 55 11 X 5 = 55 11 X 6 = 66 11 X 7 = 77 11 X 8 = 88 11 X 9 = 99 11 X 10 = 110 TABLE 16 16 X 2 = 32 16 X 2 = 32 16 X 3 = 48 16 X 4 = 64 16 X 5 = 90	TABLE 12 12 X 1 = 12 12 X 2 = 24 12 X 2 = 24 12 X 3 = 36 12 X 3 = 36 12 X 4 = 48 12 X 5 = 60 12 X 6 = 72 12 X 7 = 84 12 X 8 = 96 12 X 9 = 108 12 X 9 = 108 12 X 10 = 120 TABLE 17 17 X 1 = 17 17 X 2 = 34 17 17 X 3 = 51 17 17 X 4 = 68 17	TABLE 13 13 X 1 = 13 13 X 2 = 26 13 X 3 = 39 13 X 3 = 39 13 X 4 = 52 13 X 5 = 65 13 X 5 = 65 13 X 6 = 78 13 X 6 = 78 13 X 6 = 104 13 X 9 = 117 13 X 9 = 117 13 X 10 = 130 TABLE 18 18 X 1 = 18 18 X 2 = 36 18 X 2 = 36 18 X 4 = 72 18 X 4 = 72 18 X 5 = 00	TABLE 14 14 X 1 </td <td>TABLE 15 15 X 1 = 15 15 X 2 = 30 15 X 3 = 45 15 X 3 = 45 15 X 4 = 60 15 X 5 = 75 15 X 6 = 90 15 X 7 = 105 15 X 8 = 120 15 X 9 = 135 15 X 10 = 150 TABLE 20 20 X 1 = 20 20 X 2 = 40 20 X 3 = 60 20 X 4 = 80 20 X 5 = 100</td>	TABLE 15 15 X 1 = 15 15 X 2 = 30 15 X 3 = 45 15 X 3 = 45 15 X 4 = 60 15 X 5 = 75 15 X 6 = 90 15 X 7 = 105 15 X 8 = 120 15 X 9 = 135 15 X 10 = 150 TABLE 20 20 X 1 = 20 20 X 2 = 40 20 X 3 = 60 20 X 4 = 80 20 X 5 = 100
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TABLE 11 11 X 1 = 11 11 X 2 = 22 11 X 3 = 33 11 X 3 = 33 11 X 4 = 44 11 X 5 = 55 11 X 6 = 66 11 X 7 = 77 11 X 8 = 88 11 X 9 = 99 11 X 10 = 110 TABLE 16 16 X 1 = 16 16 X 2 = 32 16 X 2 = 32 16 X 3 = 48 16 X 5 = 80 16 X 5 = 80 16 X 5 = 80 16 X 6 = 96 16 X 7 = 112	TABLE 12 12 X 1 = 12 12 X 2 = 24 12 X 3 = 36 12 X 4 = 48 12 X 5 = 60 12 X 6 = 72 12 X 7 = 84 12 X 8 = 96 12 X 9 = 108 12 X 10 = 120 TABLE 17 17 X 1 = 17 17 X 1 = 17 17 X 2 = 34 17 X 3 = 51 17 X 2 = 85 17 X 5 = 85 17 X 5 = 102 17 X 7 = 110 <td>TABLE 13 13 X 1 = 13 13 X 2 = 26 13 X 3 = 39 13 X 3 = 39 13 X 4 = 52 13 X 5 = 65 13 X 5 = 65 13 X 6 = 78 13 X 7 = 91 13 X 8 = 104 13 X 9 = 117 13 X 10 = 130 TABLE 18 18 X 2 = 36 18 X 2 = 36 18 X 2 = 36 18 X 3 = 54 18 X 5 = 90 18 X 5 = 90 18 X 6 = 108 18 X 6 = 108 18 X 7 = 126</td> <td>TABLE 14 14 X 1 = 14 14 X 2 = 28 14 X 3 = 42 14 X 3 = 42 14 X 4 = 56 14 X 5 = 70 14 X 6 = 84 14 X 7 = 98 14 X 9 = 126 14 X 10 = 140 TABLE 19 19 X 1 = 19 19 X 2 = 38 19 X 3 = 57 19 X 5 = 95 19 X 6 = 114 10 X 7 = 132 132 133</td> <td>TABLE 15 15 X 1 = 15 15 X 2 = 30 15 X 3 = 45 15 X 3 = 45 15 X 4 = 60 15 X 5 = 75 15 X 6 = 90 15 X 7 = 105 15 X 8 = 120 15 X 9 = 135 15 X 10 = 150 TABLE 20 20 X 1 = 20 20 X 2 = 40 20 X 3 = 60 20 X 4 = 80 20 X 5 = 100 20 X 6 = 120</td>	TABLE 13 13 X 1 = 13 13 X 2 = 26 13 X 3 = 39 13 X 3 = 39 13 X 4 = 52 13 X 5 = 65 13 X 5 = 65 13 X 6 = 78 13 X 7 = 91 13 X 8 = 104 13 X 9 = 117 13 X 10 = 130 TABLE 18 18 X 2 = 36 18 X 2 = 36 18 X 2 = 36 18 X 3 = 54 18 X 5 = 90 18 X 5 = 90 18 X 6 = 108 18 X 6 = 108 18 X 7 = 126	TABLE 14 14 X 1 = 14 14 X 2 = 28 14 X 3 = 42 14 X 3 = 42 14 X 4 = 56 14 X 5 = 70 14 X 6 = 84 14 X 7 = 98 14 X 9 = 126 14 X 10 = 140 TABLE 19 19 X 1 = 19 19 X 2 = 38 19 X 3 = 57 19 X 5 = 95 19 X 6 = 114 10 X 7 = 132 132 133	TABLE 15 15 X 1 = 15 15 X 2 = 30 15 X 3 = 45 15 X 3 = 45 15 X 4 = 60 15 X 5 = 75 15 X 6 = 90 15 X 7 = 105 15 X 8 = 120 15 X 9 = 135 15 X 10 = 150 TABLE 20 20 X 1 = 20 20 X 2 = 40 20 X 3 = 60 20 X 4 = 80 20 X 5 = 100 20 X 6 = 120
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Assess your learning

- **1.** Recite 1 to 10 multiplication in 4 minutes.
- 2. Fill in the blanks

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Part-2

2nd term lecture note

Introducing of Multiplication terms:

In a multiplication problem the number on the top is called the multiplicand.

The number by which it is multiplied, that is, the bottom number is called the multiplayer. The answer of a multiplication problem is called product.



Assess your learning

1. Find out product and Identify multiplicand and multiplayer:

a.	5 ×4=	e.	6	٤	3.	4
b.	1 ×3=		<u>×8</u>			<u>×4</u>
c.	9×3=	f.	9	ł	1.	5
d.	8×2=		<u>×7</u>			<u>×5</u>