

### 3. [× Whole Numbers to 10]

Skill 3.1 Multiplying whole numbers from 1 to 10.

MM7 11 22 33 44  
MM8 11 22 33 44

Q.

	3	9	2	5	6	8	4	10	1	7
× 9										

In this table, multiply each of the numbers in the top row by 9. Write the results in the empty spaces under each number.

A.

	3	9	2	5	6	8	4	10	1	7
× 9	27	81	18	45	54	72	36	90	9	63

MULTIPLICATION TABLE

×	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

Use a multiplication table

The numbers to be multiplied are in the top row and the left hand side column. The products of these numbers are in the corresponding intersecting spaces.

To multiply 3 by 9, move down the column from 3 until you reach the row starting with 9.

This shows that the product of 3 and 9 is 27.

$$3 \times 9 = 9 \times 3 = 27$$

Since  $3 \times 9 = 9 \times 3 = 27$ , multiplication tables are symmetrical.

This means you only need to learn half of your times tables.

Once you know your 1, 2, 3, 4, 5 and 10 times tables, you are 80% done!

a)

	1	5	6	3	8	7	4	10	9	2
× 6	6	30								

b)

	4	3	8	7	2	5	1	9	6	10
× 5	20									

c)

	6	8	10	3	5	4	2	7	1	9
× 10										

d)

	7	3	1	2	10	6	9	5	8	4
× 4										

e)

	2	7	9	10	4	8	5	3	6	1
× 8										

Q.

	-3	-9	-2	5	-6	8	4	-10	1	-7
$\times 6$										

In this table, multiply each of the numbers in the top row by 6.

Write the results in the empty spaces under each number.

A.

	-3	-9	-2	5	-6	8	4	-10	1	-7
$\times 6$	-18	-54	-12	30	-36	48	24	-60	6	-42

MULTIPLICATION TABLE

$\times$	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

Use a multiplication table

The numbers to be multiplied are in the top row and the left hand side column. The products of these numbers are in the corresponding intersecting spaces.

To multiply negative 3 by 6, first ignore the signs. Move down the column from 3 until you reach the row starting with 6. This shows that the product of 3 and 6 is 18.

$$3 \times 6 = 6 \times 3 = 18$$

Then learn and apply this rule:

When multiplying a negative number by a positive number, the result is always negative.

$$-3 \times 6 = -18$$

a)

	-4	-2	6	-9	-10	3	-5	8	-7	1
$\times 1$	-4	-2								

b)

	-7	9	4	8	-2	5	-1	3	-6	10
$\times 3$	-21									

c)

	8	-5	-3	6	-1	2	7	-9	10	4
$\times 7$										

d)

	-2	3	-7	9	10	-6	1	-5	4	8
$\times 2$										

e)

	-2	8	-10	1	3	-7	-5	4	6	-9
$\times 9$										