

4. [÷ Whole Numbers to 12]

Skill 4.1 Dividing by whole numbers from 1 to 12.

MMBlue 11 22 33 44
MMGreen 11 22 33 44

Q.

	42	60	48	12	54	72	24	66	36	18
÷ 6										

In this table, divide each of the numbers in the top row by 6. Write the results in the empty spaces under each number.

A.

	42	60	48	12	54	72	24	66	36	18
÷ 6	7	10	8	2	9	12	4	11	6	3

MULTIPLICATION TABLE

×	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Use a multiplication table

How many 6's go into 42?

Reword the division by turning it into a multiplication.

What number multiplied by 6 gives 42?

$$6 \times ? = 42$$

From the multiplication table: $6 \times 7 = 42$

$$\text{So } 42 \div 6 = 7$$

a)

	4	18	16	8	14	6	12	10	22	2
÷ 2	2	9								

b)

	25	30	15	40	50	60	10	45	55	20
÷ 5	5									

c)

	21	70	84	42	49	28	56	7	35	63
÷ 7										

d)

	9	33	21	30	18	27	6	15	36	24
÷ 3										

e)

	45	63	27	54	36	18	99	108	72	9
÷ 9										

Q.

	-30	35	-45	50	10	-40	25	-15	-5	20
÷ 5										

In this table, divide each of the numbers in the top row by 5. Write the results in the empty spaces under each number.

A.

	-30	35	-45	50	10	-40	25	-15	-5	20
÷ 5	-6	7	-9	10	2	-8	5	-3	-1	4

MULTIPLICATION TABLE

×	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Use a multiplication table

$-30 \div 5$: How many 5's go into negative 30?

Reword the division by turning it into a multiplication.

What number multiplied by 5 gives negative 30?

$$5 \times ? = -30$$

To find the result of this multiplication, first ignore the signs.

Move down the column from 5 until you reach 30. Follow 30

across the row to the left hand side column. This brings you to 6 and shows that the product of 5 and 6 is 30.

$$5 \times 6 = 6 \times 5 = 30$$

$$\text{So } 30 \div 5 = 6$$

Then learn and apply this rule:

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

$$-30 \div 5 = -6$$

a)

	4	-16	24	28	-12	-20	32	-8	-40	36
÷ 4	1	-4								

b)

	66	-11	88	-44	22	-77	132	-55	110	99
÷ 11	6									

c)

	-48	8	56	80	-32	24	72	-64	-16	-40
÷ 8										

d)

	24	-54	-48	36	-18	12	-6	-42	30	60
÷ 6										

e)

	108	-96	-36	132	48	-24	72	60	-84	120
÷ 12										