

Evaluate

$$15 - (-11) + (-9)$$

Evaluate

$$15 * (-11)$$

Division of Integers

Learning Goal:

By the end of this lesson, I will be able to divide combinations of positive and negative integers.

Division (formats)

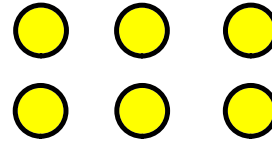
$$18 \div 2$$

$$\frac{18}{2}$$

$$2\sqrt{18}$$

using division symbol, fraction format, long division

$$\frac{6}{2}$$



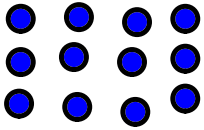
Case 1: "6 divided **in/into** 2"

"I want to break 6 up into 2 equal groups."

Case 2: "6 divided **by** 2"

"I want to know how many groups of 2 are in 6."

$12 \div 4$



Division is a shortcut for repetitive subtraction.

$4 \overline{)12}$

We can use the Multiplication Tables to solve the following:

Find "8" on the side of the table, trace it down until you find a 48, then trace across to find the other number on the side.

$$48 \div 8 =$$

	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

We can also use Long Division or Continental Division to solve this problem.
(repetitive subtraction)

$$48 \div 8 =$$

$$8\sqrt{48}$$

When dividing positive and negative values, determine the sign of the final answer, and then find the number answer.

$$(-20) \div (4) =$$

$$(35) \div (-7) =$$

Dividing with a Remainder

$$38 / 7$$

$$245 / 48$$

Consolidation Questions:

Task - Dividing Integers

Attachments

Math - task2 - mult_div_integers.doc