

4.2 Opposites and Additive Inverses

Chapter 4: Integers and the Coordinate Plane

Name: _____

Date: _____

Class/Period: _____

Problem 4.17 Directions:

Find each opposite or simplify each expression as directed.

The opposite of 17.

Problem 4.20 Directions:

Find each opposite or simplify each expression as directed.

$-(-19)$

Problem 4.18 Directions:

Find each opposite or simplify each expression as directed.

The opposite of -42 .

Problem 4.21 Directions:

Find each opposite or simplify each expression as directed.

$-(-(-4))$

Problem 4.19 Directions:

Find each opposite or simplify each expression as directed.

The opposite of 0.

Problem 4.22 Directions:

Find each opposite or simplify each expression as directed.

$-(-(-(-7)))$

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Problem 4.23 Directions:

Find each opposite or simplify each expression as directed.

The opposite of 3.25.

Problem 4.26 Directions:

Find each opposite or simplify each expression as directed.

If $-b = 6$, find b .

Problem 4.24 Directions:

Find each opposite or simplify each expression as directed.

The opposite of $-\frac{7}{9}$.

Problem 4.27 Directions:

Find each opposite or simplify each expression as directed.

If $-c = -15$, find c .

Problem 4.25 Directions:

Find each opposite or simplify each expression as directed.

If $a = -11$, find $-a$.

Problem 4.28 Directions:

Find each opposite or simplify each expression as directed.

Name the only integer equal to its own opposite.

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Problem 4.29 Directions:

Find each opposite or simplify each expression as directed.

Explain why $-(-x) = x$ using a number-line reflection.

Problem 4.31 Directions:

Find each opposite or simplify each expression as directed.

A point and its opposite are 26 units apart. Find both possible coordinates.

Problem 4.30 Directions:

Find each opposite or simplify each expression as directed.

Find two numbers that are 8.4 units apart and are opposites.

Problem 4.32 Directions:

Find each opposite or simplify each expression as directed.

A student's balance is the opposite of -35 dollars. Interpret the balance.