

Warm Up!

1.) Write homework assignment in agenda book.

2.) $75 - 3.658$

$$\begin{array}{r}
 75.000 \\
 - 3.658 \\
 \hline
 71.342
 \end{array}$$

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Lesson 1.1: Identifying Integers and Their Opposites

Learning Target: I can identify integers and their opposites.

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Positive numbers are numbers greater than 0.

Negative numbers are numbers less than 0.

Integers are positive and negative whole numbers.

Where can we see integers in everyday life? List them below.

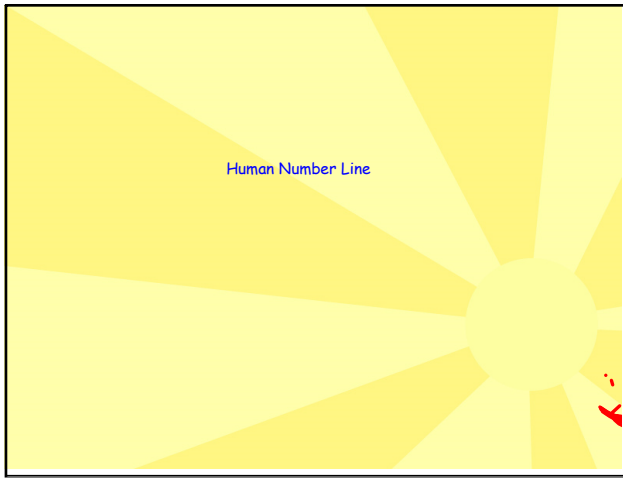
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Integer Song

<https://www.youtube.com/watch?v=TPJj6MROQoc>

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Opposites are numbers that are the same distance from zero on a number line, but in different directions.

You Try: Write the opposite of each number.

a.) 10 -10 b.) -5 5 c.) 0 0 ~~6004~~

d.) What is the opposite of the opposite of -8? -8

e.) Write an integer to represent 4 degrees below zero. -4

f.) Write an integer to represent 30 feet above sea level. 30

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Writing an integer to represent a real-world situation.

- 1.) A loss of 10 yards in a football game. -10
- 2.) Score of 25 points 25
- 3.) Withdrawing \$100 from your bank account. -100
- 4.) Depositing \$50 into your bank account. 50
- 5.) An elevation of 17 feet below sea level.
- 6.) Losing 5 pounds of weight.

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Which number is further from 0 on a number line: -9 or 6? Explain your reasoning.

H.O.T.


24. What if? Three contestants are competing on a trivia game show. The table shows their scores before the final question.

Contestant	Score Before Final Question
Timothy	-25
Shawna	18
Kaylynn	-14

a. How many points must Shawna earn for her score to be the opposite of Timothy's score before the final question? 7


b. Which person's score is closest to 0? Kaylyn

c. Who do you think is winning the game before the final question? Explain.
Shawna



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Homework



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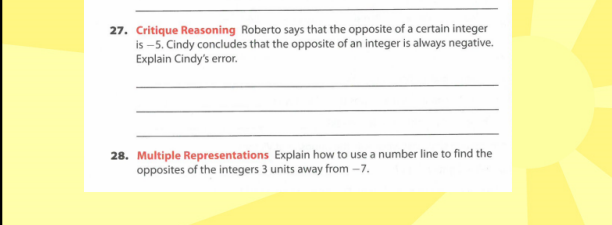
H.O.T. FOCUS ON HIGHER ORDER THINKING

25. Communicate Mathematical Ideas Which number is farther from 0 on a number line: -9 or 6? Explain your reasoning.

26. Analyze Relationships A number is k units to the left of 0 on the number line. Describe the location of its opposite.

27. Critique Reasoning Roberto says that the opposite of a certain integer is -5. Cindy concludes that the opposite of an integer is always negative. Explain Cindy's error.

28. Multiple Representations Explain how to use a number line to find the opposites of the integers 3 units away from -7.



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