UNIT 1 Integers, Operations, Opposites and Absolute Value

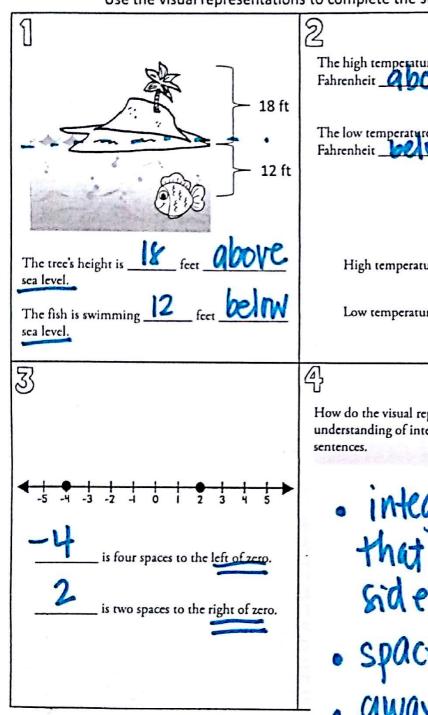
TUES My. 30

Day1: Representing Real-World Integers

obj: I will be able to represent integers based on real world scenarios.

## An Exploration of Integers

Use the visual representations to complete the statements.



The high temperature is 40 degrees
Fahrenheit 40 degrees
Fahrenheit 200 degrees
Fahrenheit

How do the visual representations relate to your understanding of integers? Explain in 1-3 sentences.

- · integer is a number that lies on either side of zero
- · spaces from zero
- . away from zero

## Real World Integers

Write a definition for integer based on your understanding of the term.

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## Rethinking the Meaning of Zero

In the real world, zero is used as a benchmark to compare or measure the quantitative properties of objects within a group or system.

Group or System	Meaning of Zero	Explanation
Elevation	At sea level	An object can be above sea level (+), below sea level (-), or at sea level (0).
Temperature	Freezing point of water (°C) Freezing point of salt water (°F)	A temperature can be above zero (+), below zero (-), or the freezing point (0).
Electric charge	No charge (net)	A proton has a positive charge (+) and a electron has a negative charge (-). When there are the same number of protons and electrons, the net charge is zero.
Finances	No money or no gains or losses. Also known as "balanced."	Earning money or making a profit (+), spending money or losing money (-), and no net profit or loss (0).
Golfscore	Par	Fallure to make the hole within a set number of shots (+), making the hole in less than the set number of shots (-), making the hole within the set number of shots (O or par).
Games	No points	Gaining points (+), losing points (-), and no net gain or loss in points (0).

## Write an integer that represents the number in each statement.

1. Badwater Basin, located in Death Valley, California, is 86 meters below sea level.	2. Catalina earned \$ 100 from her lemonade stand.	3. The low temperature was 15°F below zero.
4. Tomas answered a question wrong during the game and lost 250 points.	5. Joseph scored 3 over par during the first round of the golf tournament.	6. A chlorine ion has 18 electrons and 17 protons. What is the chlorine ion's charge?

Name\_\_\_\_\_\_ Class\_\_\_\_\_ Date\_\_\_\_\_
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