

Three Useful Definitions

Counting Numbers are the set of numbers we use to count from 1 to infinity.

1, 2, 3, 4, 5, 6, 7...

Circle the counting numbers. Cross out the others.

1,000 2 -5 0.75 453 $\frac{1}{2}$ 35,040

Whole Numbers are the set of counting numbers AND zero.

0, 1, 2, 3, 4, 5, 6, 7...

Circle the whole numbers. Cross out the others.

47 -16 0 $\frac{2}{3}$ 235 0.25 $\frac{5}{10}$ 1

Integers are the set of whole numbers and their opposites.

...-3, -2, -1, 0, 1, 2, 3...

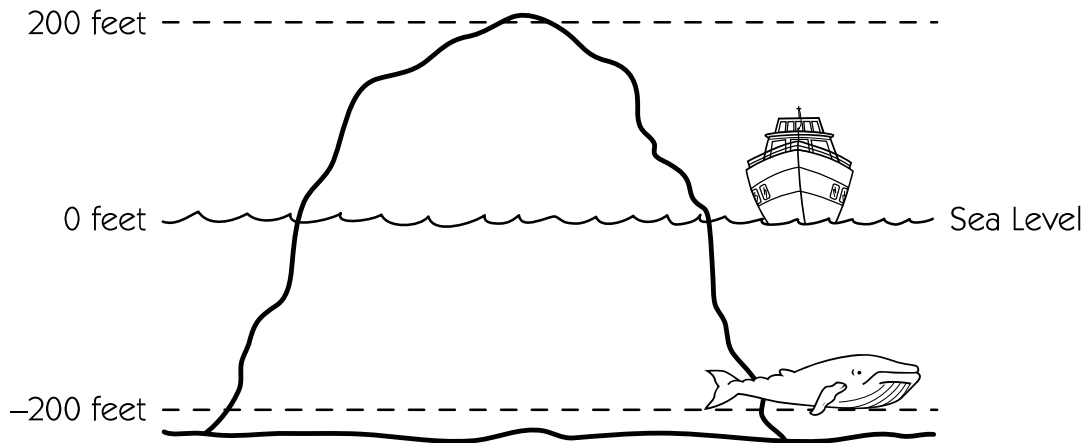
Circle the integers. Cross out the others.

567 -48 0 0.50 $\frac{3}{4}$ -1 -14,890

One example of integers in daily life is a thermometer that measures temperatures above and below 0. List at least 2 other examples of how people use integers at home, in sports, or on the job.

Elevation Bingo

People use integers to describe elevation. The highest elevation on the mountain in this picture is 200 feet above sea level. What is the elevation of the ship? At what elevation is the whale swimming?



<p>Elevation of Desert Shores, CA.*</p> <p>-200 feet</p>	<p>Highest Elevation in Houston, TX.**</p> <p>83 feet</p>	<p>Elevation of Salton City, CA.*</p> <p>-125 feet</p>
<p>Lowest Elevation in New Orleans, LA.**</p> <p>-8 feet</p>	<p>Elevation of Imperial, CA.*</p> <p>-59 feet</p>	<p>Lowest Elevation in Memphis, TN**</p> <p>195 feet</p>
<p>Elevation of Coachella, CA.*</p> <p>-72 feet</p>	<p>Lowest Elevation in Portland, OR**</p> <p>Sea Level</p>	<p>Highest Elevation in Miami, FL**</p> <p>30 feet</p>

* Wikipedia@http://en.wikipedia.org/wiki/List_of_places_on_land_with_elevations_below_sea_level

** US Geological Survey@<http://egsc.usgs.gov/isb/pubs/booklets/elvadist/elvadist.html>

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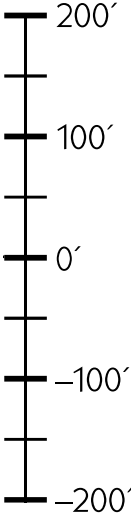
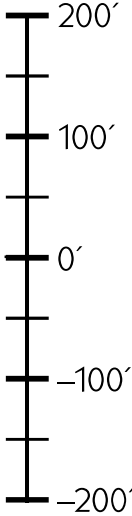
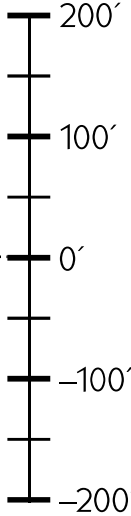
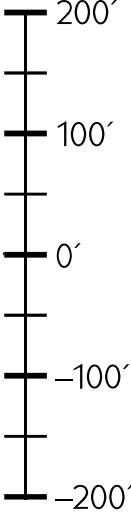
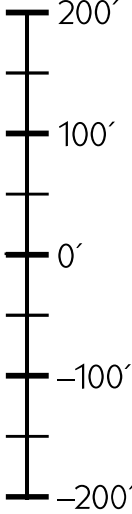
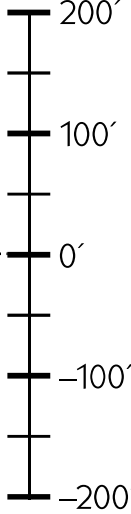
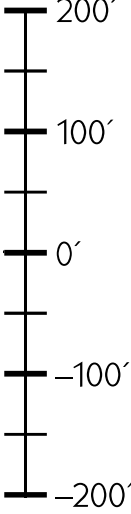
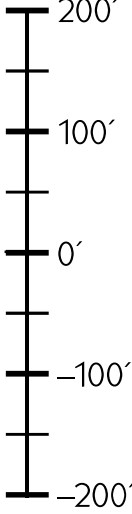
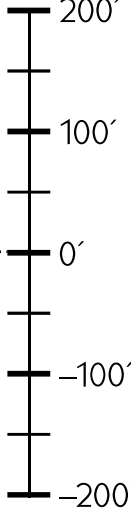
Elevations Bingo Board A

<p>200 feet below sea level</p> <p>200'</p> <p>100'</p> <p>0'</p> <p>-100'</p> <p>-200'</p>	<p>59 feet below sea level</p> <p>200'</p> <p>100'</p> <p>0'</p> <p>-100'</p> <p>-200'</p>	<p>30 feet above sea level</p> <p>200'</p> <p>100'</p> <p>0'</p> <p>-100'</p> <p>-200'</p>
<p>125 feet below sea level</p> <p>200'</p> <p>100'</p> <p>0'</p> <p>-100'</p> <p>-200'</p>	<p>72 feet below sea level</p> <p>200'</p> <p>100'</p> <p>0'</p> <p>-100'</p> <p>-200'</p>	<p>At sea level</p> <p>200'</p> <p>100'</p> <p>0'</p> <p>-100'</p> <p>-200'</p>
<p>83 feet above sea level</p> <p>200'</p> <p>100'</p> <p>0'</p> <p>-100'</p> <p>-200'</p>	<p>8 feet below sea level</p> <p>200'</p> <p>100'</p> <p>0'</p> <p>-100'</p> <p>-200'</p>	<p>195 feet above sea level</p> <p>200'</p> <p>100'</p> <p>0'</p> <p>-100'</p> <p>-200'</p>

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Elevations Bingo Board B

<p>72 feet below sea level</p>  <p>A vertical number line with major tick marks at 200', 100', 0', -100', and -200'. A horizontal dotted line is drawn at the 0' mark. A tick mark is placed at -72 feet.</p>	<p>At sea level</p>  <p>A vertical number line with major tick marks at 200', 100', 0', -100', and -200'. A horizontal dotted line is drawn at the 0' mark. A tick mark is placed at 0 feet.</p>	<p>195 feet above sea level</p>  <p>A vertical number line with major tick marks at 200', 100', 0', -100', and -200'. A horizontal dotted line is drawn at the 0' mark. A tick mark is placed at 195 feet.</p>
<p>8 feet below sea level</p>  <p>A vertical number line with major tick marks at 200', 100', 0', -100', and -200'. A horizontal dotted line is drawn at the 0' mark. A tick mark is placed at -8 feet.</p>	<p>83 feet above sea level</p>  <p>A vertical number line with major tick marks at 200', 100', 0', -100', and -200'. A horizontal dotted line is drawn at the 0' mark. A tick mark is placed at 83 feet.</p>	<p>125 feet below sea level</p>  <p>A vertical number line with major tick marks at 200', 100', 0', -100', and -200'. A horizontal dotted line is drawn at the 0' mark. A tick mark is placed at -125 feet.</p>
<p>200 feet below sea level</p>  <p>A vertical number line with major tick marks at 200', 100', 0', -100', and -200'. A horizontal dotted line is drawn at the 0' mark. A tick mark is placed at -200 feet.</p>	<p>59 feet below sea level</p>  <p>A vertical number line with major tick marks at 200', 100', 0', -100', and -200'. A horizontal dotted line is drawn at the 0' mark. A tick mark is placed at -59 feet.</p>	<p>30 feet above sea level</p>  <p>A vertical number line with major tick marks at 200', 100', 0', -100', and -200'. A horizontal dotted line is drawn at the 0' mark. A tick mark is placed at 30 feet.</p>

Counting Numbers

1, 2, 3, 4, 5, 6...

Counting Numbers:

also called natural numbers, this is the set of numbers used to count from 1 to infinity

Whole Numbers

1, 2, 3, 4, 5, 6...

Whole Numbers:

the set of counting numbers AND zero

Integers

...-3, -2, -1, 0, 1, 2, 3...

Integers:

the set of whole numbers and their opposites