2.1 Real Numbers

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- Real Numbers:

$1, 4, 0, -7, .1, \frac{1}{2},$

$\mathbb{R}$

* **Real Numbers are either Positive or Negative!**

$\mathbb{R} : (-\infty, \infty)$

Special Real Numbers

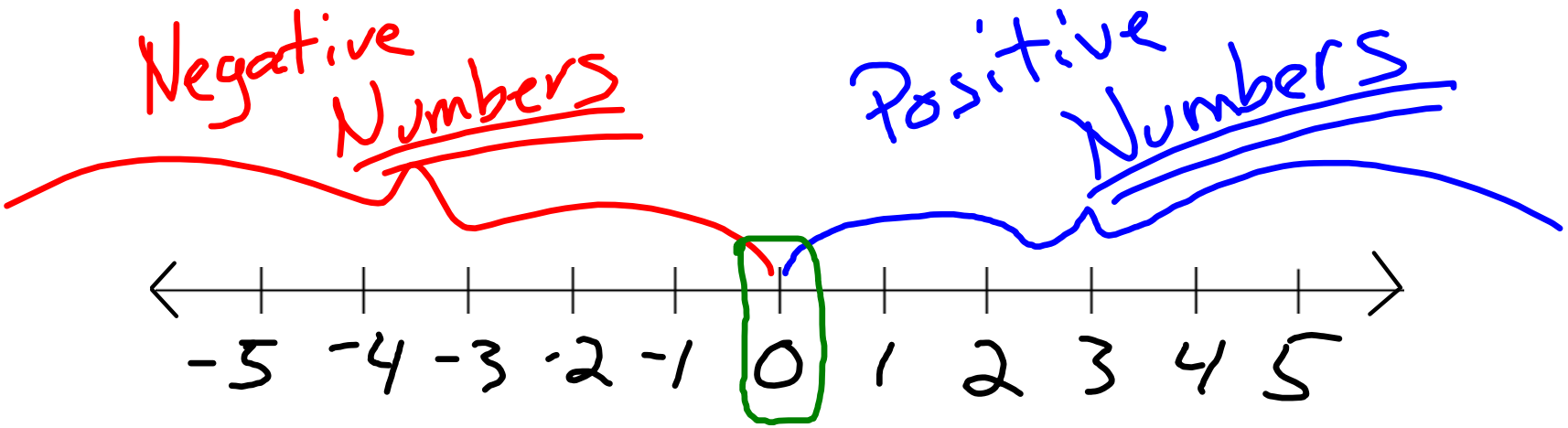
-Whole Numbers: $\{0, 1, 2, 3, \ldots\}$

$\mathbb{W} : [0, \infty)$

-Integers: $\{\ldots, -2, -1, 0, 1, 2, \ldots\}$

$\mathbb{Z} : (-\infty, \infty)$

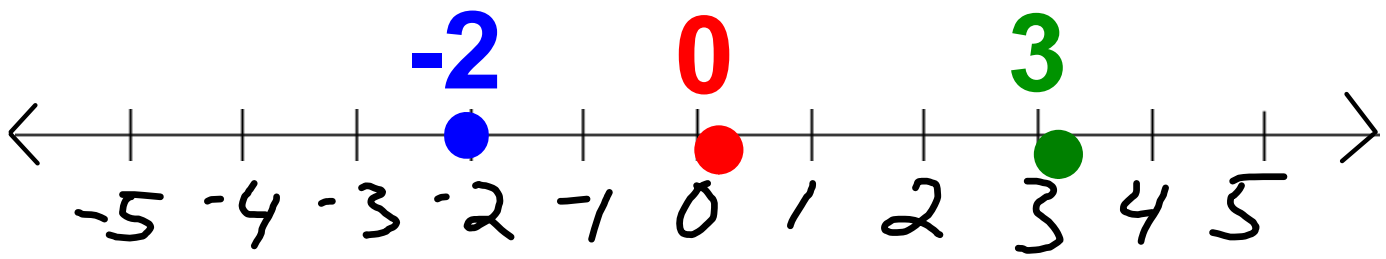
Real Number Line



Zero: Neither Positive Nor Negative

It is Neutral

Graph: -2, 0, 3



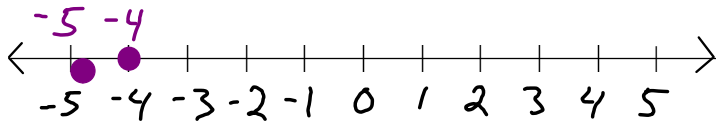
Compare Integers:

***Which is greater than and which is less than**

∴ means Therefore

Compare -4 & -5

Then write 2 inequalities



-4 is to the Right of -5

∴ -4 is greater than -5

$-4 > -5$

-5 is to the Left of -4

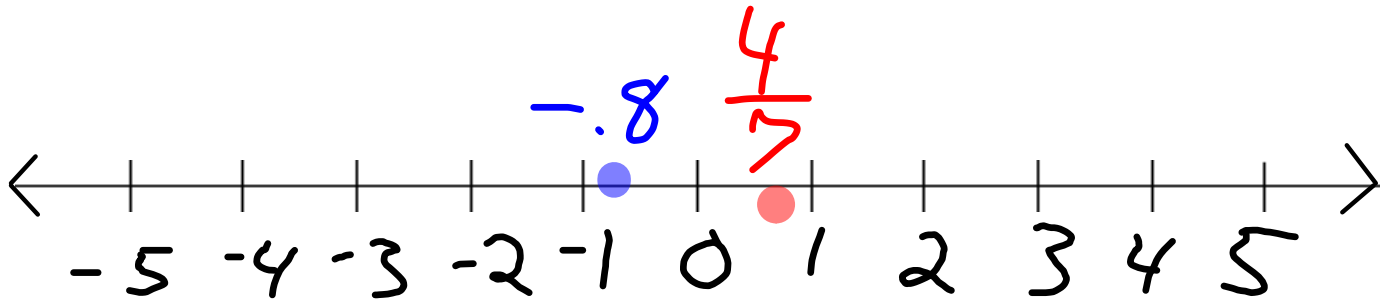
∴ -5 is less than -4

$-5 < -4$

Graph Real Numbers:

Graph: -.8 & $\frac{4}{7}$

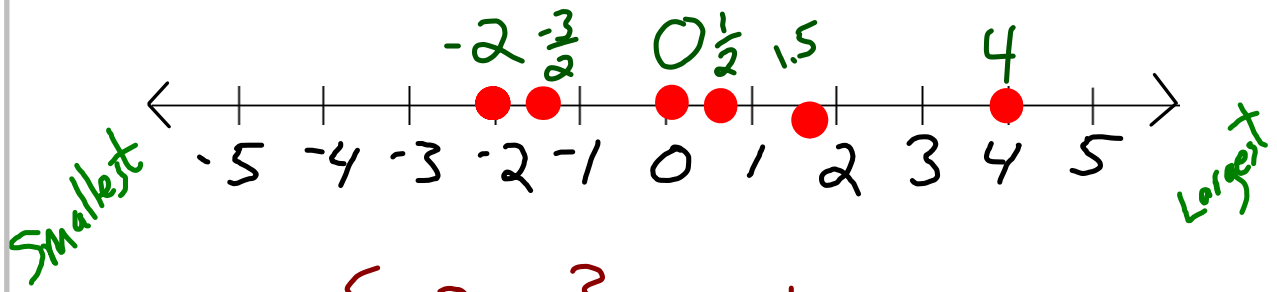
0.571428571428571428571428571428571



Order Real Numbers:

from Smallest to largest

Write the numbers
$-2, 4, 0, 1.5, \frac{1}{2}, \frac{-3}{2}$
in increasing order



$\{-2, \frac{-3}{2}, 0, \frac{1}{2}, 1.5, 4\}$

O. T. L.

1. Pg. 68-69: 1, 2, 15-29 (o), 31-34 (a), 35-49 (o), 55-59 (a)

Use ex 5 on pg 67 for help if needed

#'s 45, 47, 49, show me the number line for each