**Rational Numbers**

What is a Rational Number?

* = A number that *can be* written in the form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
  + Examples: \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_
  + Also examples: \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_
  + Are integers rational numbers??

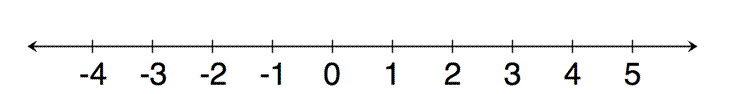
Fractions

* One type of rational number is a fraction
* Fraction= A number written in the form a/b, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Fractions can be
  + Regular:
  + \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_:
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: 4

Plotting Fractions

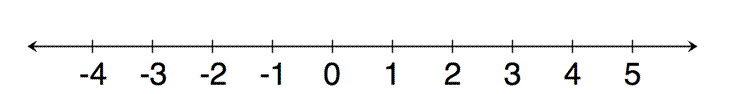
* Where would the following go on the number line?

1/2 3/2 1/3 -4/5 -7/3



* You Try!
* Plot the following numbers on a number line:

5/7 -4/3 2/1 -3/-2



Adding and Subtracting Fractions

* The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (bottom number) must be the same before fractions can be added or subtracted
  + Example - = \_\_\_\_
* If they are not the same, we have to find the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Example: + = + =

What if the fractions are negative?

* Adding and subtracting negative fractions use the same rules as adding and subtracting integers
  + Example: 3/4 + (-9/4) = -6/4
  + Example: (-3/2) – (8/3) = (-9/6) – (16/6) = \_\_\_\_\_\_\_\_\_\_

You Try!

|  |  |
| --- | --- |
| 1. -6/9 + (-4/9) | 1. 4/5 – (-3/4) |
| 1. -7/2 – 5/2 | 1. 6 + (-3/5) |
| 1. -6 + (2/3) |  |