

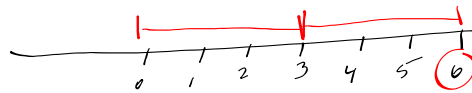
Lesson 5 : Dividing 2 Integers Sept 6<sup>th</sup>

ex 10 (whole #)

not an integer = 10.2

Recall: Multiplication makes a # larger

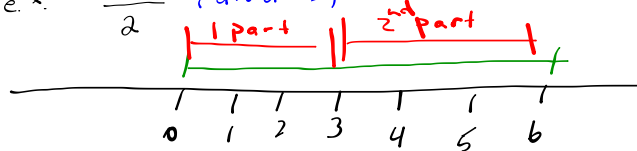
e.x.  $3 \times 2$  (add 3 two times) = 6



notez bien  
nota bene: N.B. Division is the  
inverse/opposite operation  
take note of multiplication

∴ Division makes a # smaller

e.x.  $\frac{6}{2}$  (divide/split 6 into 2 equal parts) = 3



Recall

adjacent  
x / ÷

+ + = +  
- - = +  
+ - = -

→ same signs → +

→ opposite signs → -

quotient → the result of the division

Division	Sign of quotient	Integer divided into how many parts	Value of quotient	check opposite operation
$12 \div 3$	+	3 parts	4	$4 \times 3 = 12$
$\frac{-10}{5 \text{ people}}$	-	5 parts	2	$2 \times 5 = 10$
$\frac{-6}{-2}$	<span style="border: 1px solid black; padding: 2px;">+</span>	2	3	$3 \times 2 = 6$
$\frac{30}{2 \text{ months}}$	+	2	\$ 15	$15 \times 2 = 30$

Attention! When 0 is in Division

Which example is impossible?

e.x. 1  $\frac{0 \$}{6 \text{ people}} = 0$  possible, each person gets zero \$.

e.x. 2  $\frac{-6000 \$}{0 \text{ people}} = \text{error}$  impossible, when zero is in bottom.  
 $= \text{undefined}$

You do: pg 5.3

Ex 5.1: Fill out following columns, and then check answer w calculator

• Division

- sign of quotient

- integer divided into how many part

- Value of quotient

- check w calculator

7.  $-10 \div 2$

-

2 part

- 5

- 5

1.  $-10 \div 2 =$  ..... 2.  $0 \div (-15) =$  .....

3.  $-5 \div 0 =$  ..... 4.  $30 \div (-6) =$  .....

5.  $-26 \div (-2) =$  ..... 6.  $15 \div 3 =$  .....

7.  $0 \div 5 =$  ..... 8.  $10 \div 0 =$  .....

9.  $-14 \div (-7) =$  ..... 10.  $-18 \div 3 =$  .....

? When you verified your answers for Questions 3 and 8 with a calculator, it should have indicated -E- on the display. This -E- means "error," that is, undefined. Why?

.....

The fact is that it is impossible to divide a number by zero.

You do.  
All of handout w  
Ex 5.2!