

Chapter 3

Rational Numbers



$\frac{1}{8}$	60%	0.222...
	$0.0\overline{83}$	$\frac{3}{4}$
37.5%		0.05
$\frac{2}{3}$	25%	

Fractional, Decimal & Percent Equivalents





Warm- Up

September 10, 2015

*Pattern (Repeats)
or Terminates*

	Rational	Irrational
a) $-\frac{1}{3} = -0.\overline{3}$	✓	
b) $\sqrt{7} = 2.645751$		✓
c) 4	✓	
d) $3.\overline{83}$	✓	
e) 64.2	✓	

f) 0.3168429...

Quick Review

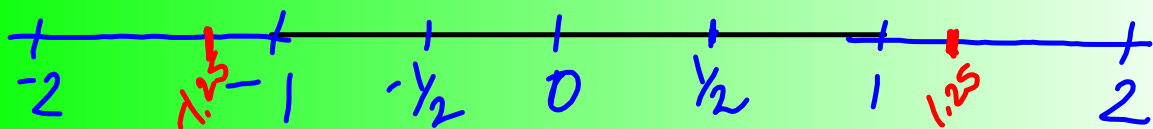
Fractions to decimals and decimals to fractions

To write a fraction as a decimal, divide the numerator by the denominator.

Use a calculator if necessary.

	FRACTION Simplify Completely	DECIMAL
1	$\frac{16}{100}$	0.16
2	$\frac{3}{5}$	0.6
3	$\frac{7}{8}$	0.875
4	$\frac{5}{6}$	0.8 $\bar{3}$
5	$2\frac{1}{4}$	2.25
6	$\frac{45}{100}$	0.45
7	$\frac{2}{1000}$	0.002

How are positive fractions and their opposite RELATED on a number line? [Draw a number line to help]



Both are equal distance from zero

Use Your Calculator to determine the value of each RATIONAL Number

What did you notice?



A. $\frac{-2}{5}$

-0.4

B. $\frac{2}{-5}$

-0.4

C. $-\frac{2}{5}$

-0.4

Write with a positive denominator:

$$a) \frac{-4}{6}$$

$$\frac{-4}{6}$$

$$-0.6\bar{7}$$

$$b) \frac{-4}{3}$$

$$\frac{-4}{3}$$

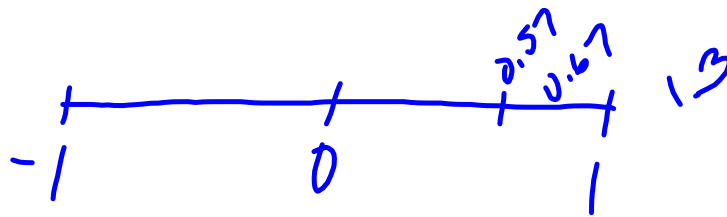
$$-1.\bar{3}$$

$$c) \frac{4}{-7}$$

$$\frac{-4}{7}$$

$$-0.\bar{57}$$

Which rational number is the greatest?



Write two fractions that represent the same number...

$$-\frac{4}{8}$$

$$-\frac{5}{7}$$

Which Rational number is greater?

A. 2.34 or 2.30

B. -1.4 or 1.4

C. $-3/4$ or $-1/6$

-0.75 or -0.67

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5, 6, 7

$[a, c]$

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16, 17, 18

$[b, d, f]$ $[a, c]$ $[a, c]$

Homework