

**1. Welcome! Please get your ISN from your shelf and have a seat!**

**2. Label pages 29-30 DO NOW 8/28-9/1**

**3. Split page 29 into 2 sections (a top half and a bottom half)**

**4. On the top half of page 29 copy and answer the following..**

**Reduce the rational.**

**1.  $\frac{12}{15}$**

**2.  $\frac{30}{39}$**

**Perform the indicated operations. Reduce to lowest terms.**

**3.  $\frac{3}{4} + \frac{3}{8}$**

**4.  $\frac{6}{19} - \frac{7}{24}$**

**5.  $\frac{1}{6} * \frac{1}{3}$**

Sep 8-10:02 AM

1. Please grab you ISN and have a seat.

2. On the bottom half of page 29 in your ISN copy and answer the following DO NOW.

Convert to a mixed number to an improper fraction.

1.  $2\frac{5}{7}$   $\left(\frac{19}{7}\right)$   
 $14 + 5$

2.  $-8\frac{3}{5}$   $\left(\frac{-43}{5}\right)$   
 $-8 \times 5 = 40 + 3 = -43$

Perform the indicated operation, Reduce if possible.

3.  $\frac{1}{4} \div \frac{7}{24}$

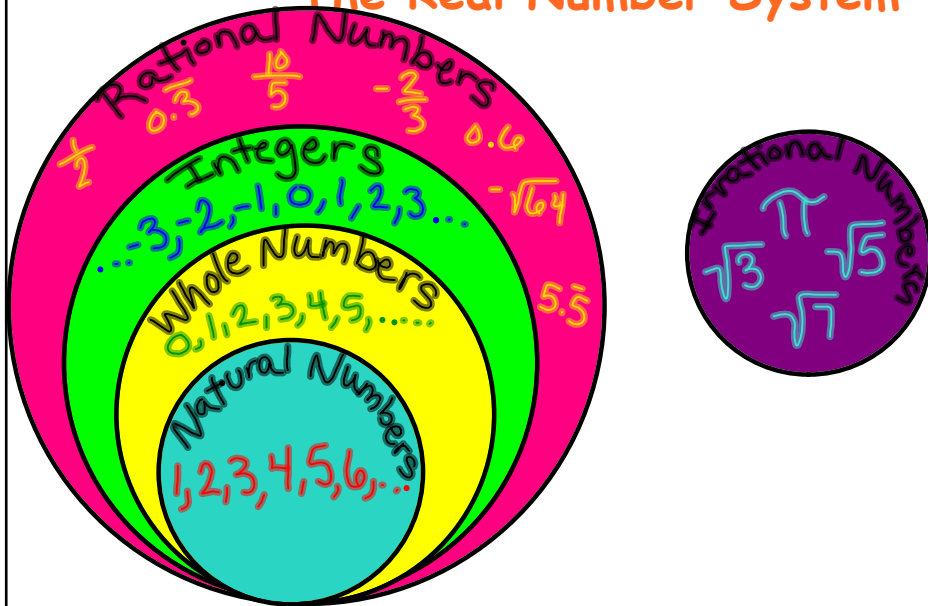
4.  $\left(\frac{1}{5} - \frac{1}{6}\right) \div \frac{7}{9}$

$\frac{1}{4} \times \frac{24}{7} = \frac{24}{28} = \left(\frac{6}{7}\right)$   $\left(\frac{1}{5} - \frac{1}{6}\right) \rightarrow \left(\frac{6}{30} - \frac{5}{30}\right) = \frac{1}{30}$   $\frac{6}{30} \cdot \frac{9}{7} = \frac{54}{210} = \frac{9}{35}$   $\frac{9}{28} = \frac{3}{70}$

Aug 29-9:15 AM

# TOC page 31 Real # Subsets & Properties

## The Real Number System



Sep 8-10:02 AM

### PROPERTIES OF REAL NUMBERS

LET a, b, AND c REPRESENT REAL NUMBERS

Property	Addition	Multiplication
Closure	The sum of any 2 real #s is a real #. $4\sqrt{2} + 5\sqrt{2} = 9\sqrt{2}$	The product of any 2 real #s is a real #. $10(\frac{1}{2}) = 5$ #s
Commutative		
Associative		
Distributive		

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Example 1: Consider the following set of numbers and list the numbers in the set that are

$\{-9, -1.3, 0, 0.3, \pi/2, \sqrt{9}, \sqrt{10}\}$

a) natural numbers:

b) whole numbers:

c) integers:

d) rational numbers:

e) irrational numbers:

f) real numbers:

Sep 9-9:52 AM

Page 19 Example 2: Name the property illustrated

a)  $(4 * 7) * 3 = 4 * (7 * 3)$

b)  $3(\sqrt{5} + 4) = 3(4 + \sqrt{5})$

c)  $3(\sqrt{5} + 4) = 3\sqrt{5} + 12$

d)  $2(\sqrt{3} + \sqrt{7}) = (\sqrt{3} + \sqrt{7})2$

Sep 9-9:57 AM

p.242

1-4, 16-38 even  
all

Sep 9-10:35 AM

Aug 29-8:13 AM