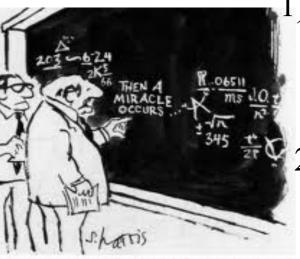
# Warmup



nk you should be more explicit here in step two."

from What's so Flurry about Science? by Sidney Harris (1977)

Solve Each of The Following In Your Notebooks 
$$3 + 7(10-6) - 2 = 3 + 7(4) - 2 = 3 + 26 - 2 = 31 - 2 = 29 = 10 \times 5 + 3(12-3) = 50 + 27$$

= 77

### **BEDMAS**

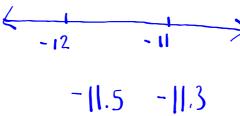
Brackets Exponents Division

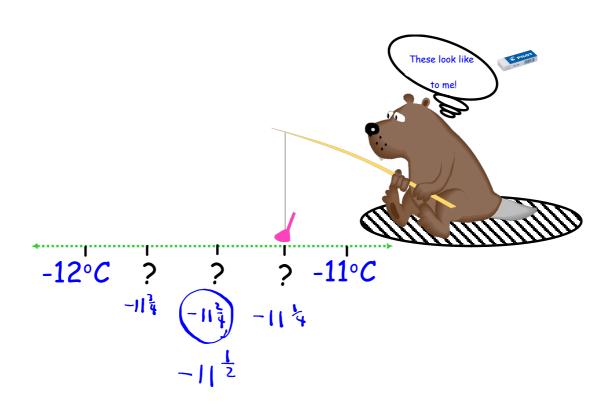
Multiplication which ever comes 1st

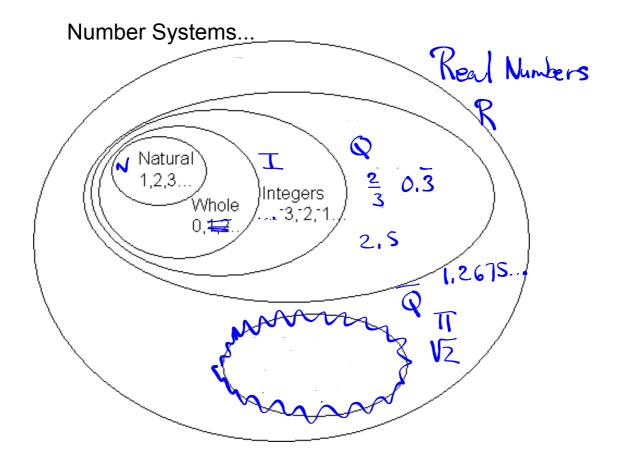
Addition

Subtraction which ever comes first Suppose you are ice fishing on Blachford Lake, NWT. The temperature at midnight is -12°C. At 6 am the next day, the temperature is -11°C. What must the temperature have been at some time during the night?









Natural Numbers - 
$$(N)$$
  $\{1,2,3,4,5,...\}$ 

Whole Numbers - (W)  $\{0,1,2,3...\}$ 

Integers - 
$$(I)$$
  $\{\ldots^2, -1, 0, 1, 2\ldots\}$ 

Rational Numbers (Q) Written as a fraction. As a decimal they end or repeat 0.6 1.5  $\frac{2}{3}$  Irrational Numbers (Q) Can't be written as a fraction

Does not endor repeat IT 1.21567... 12

Real Numbers (R) All possible numbers

Q Rational Numbers

Q Irrational Numbers

So you're saying a as a fraction.



A rational number is any number that can be written in the form  $\frac{a}{b}$  where a and b belong to integers and  $b\neq 0$ .

repeats or ends.

Decimal form 
$$Q = \left\{ \begin{array}{l} \frac{a}{b} \mid a, b \in I, b \neq 0 \end{array} \right\}$$
 repeats

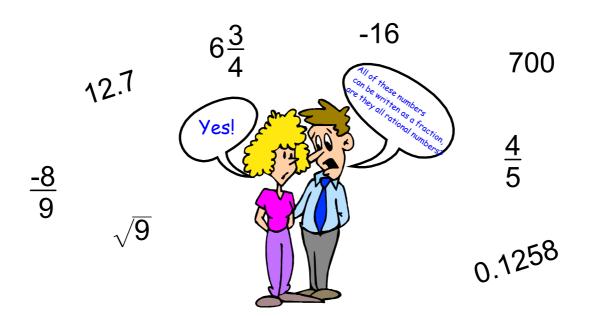
$$\frac{1}{2} = 4$$
  $\frac{6}{3} = 2$   $\frac{16}{2} = ?$ 

Changing fractions to decimals...

Express each fraction as a decimal, then sort as a repeating or terminating decimal.

Repeating	<u>-5</u> 9
0,0	9
0.81	<u>27</u> 33
	<u>20</u> -10
_	6

12



Irrational numbers cannot be written as fractions.

Use a calculator to determine the value of each rational number.

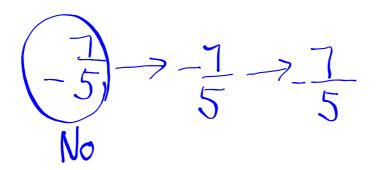
#### What did you notice??

$$\frac{-7}{5} = -1.4$$

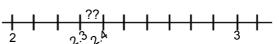
$$-\frac{7}{5} = -1.4$$

$$-\frac{7}{5} = -1.4$$





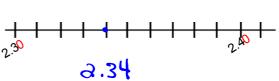


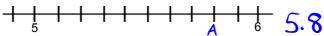


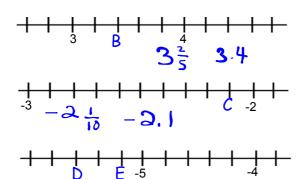
Hint... Add a zero place holder at the end of the decimal.

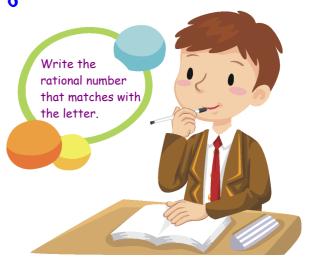
2.30

2.40





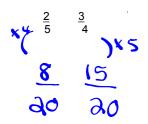




I. Change the fractions to decimals.

$$0.4 \quad 0.75$$

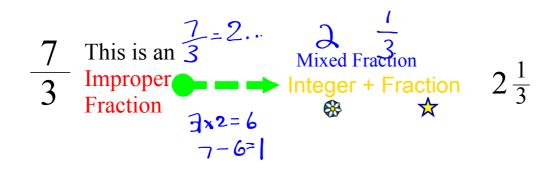
II. Write the fractions with common denominators.

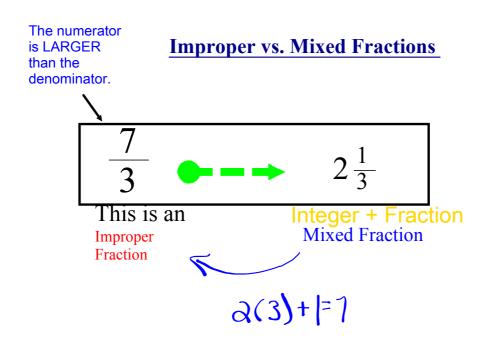




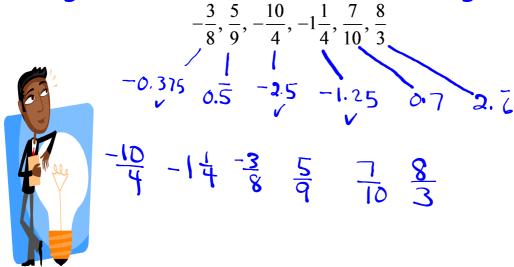
The numerator is LARGER than the denominator.

#### **Improper Fractions vs. Mixed Fractions**

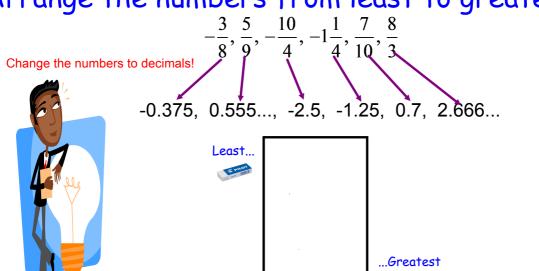


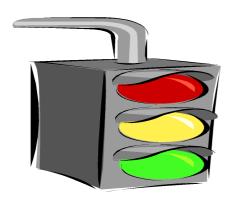


## Arrange the numbers from least to greatest.



## Arrange the numbers from least to greatest.





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Questions: 5 - 11, 12 (a,e,h)