Warm Up

Solve Each of The Following In Your Notebooks

No talking try it on your own

Hint: **BEDMAS**

1) 5 - 6÷(4-2) - 7(5+2)

$5-6\div(2)-7(7)$

$5-3-7(7)$

$5-3-49$

-47

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2) $12 - 2(4+1)^2 + 8 \times 5 + 36 - 18$

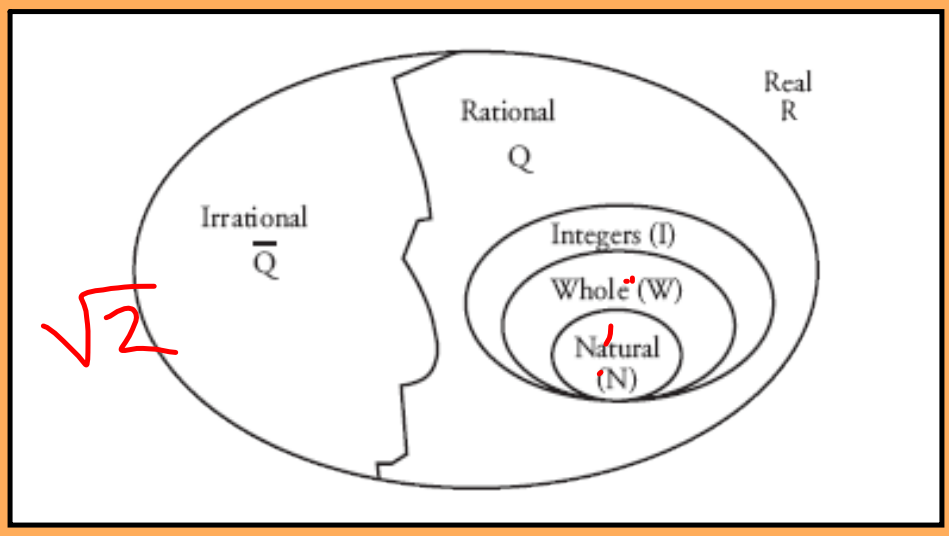
$12 - 2(5)^2 + 8 \times 5 + 36 - 18$

$12 - 2(25) + 8 \times 5 + 36 - 18$

$12 - 50 + 40 + 36 - 18$

$\boxed{20}$

Review of Types of Number Systems



Which number groups do the following numbers belong to? (NOTE: Every number belongs to AT LEAST 2 number groups.)

groups.)	N	W	I	Q	$\overline{Q}$	R
1. 2	✓	✓	✓	✓		✓
2. -3			✓	✓		✓
3. $\frac{1}{4}$				✓		✓
4. π					✓	✓
5. $\sqrt{15}$					✓	✓
6. -0.9				✓		✓
7. $\sqrt{25}=5$	✓	✓	✓	✓		✓
8. 0		✓	✓	✓		✓

TRUE or FALSE:

1. ALL integers are rational numbers.

T

2. ALL natural numbers are whole numbers.

T

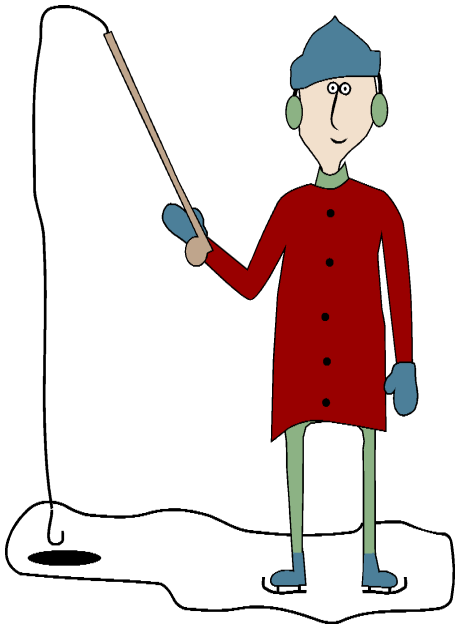
3. ALL rational numbers are natural numbers.

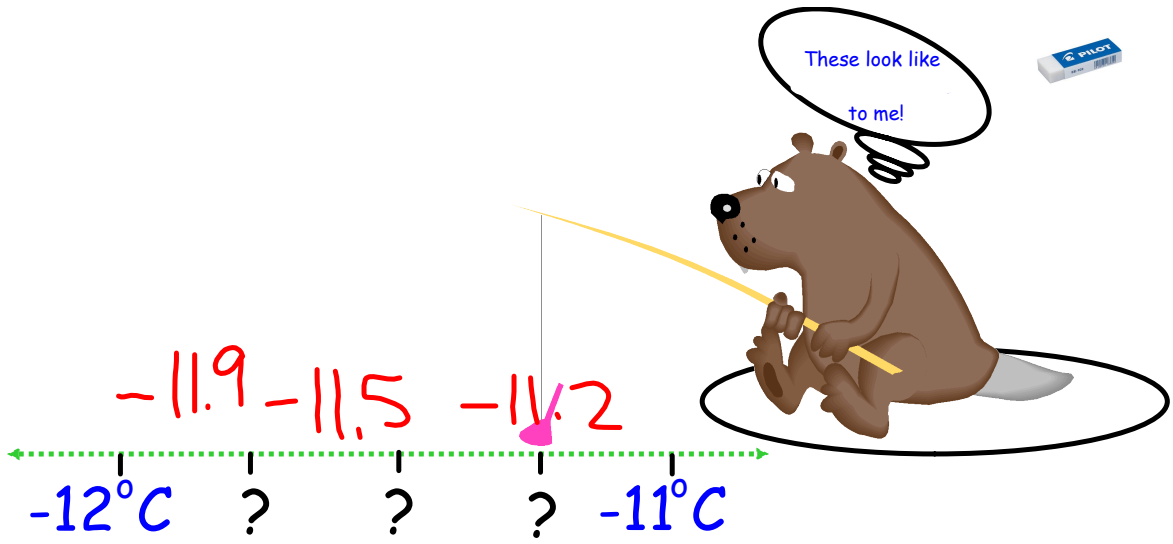
F

4. ALL integers are irrational numbers.

F

Suppose you are ice fishing on Blanchford 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?




These look like
to me!
-11.9 -11.5 -11.2
-12°C ? ? ? -11°C

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≠0.

$$Q=\left\{\frac{a}{b} \mid a,b\in I\ ,b\neq 0\right\}$$

2

$$Q= \left\{ \frac{a}{b} \mid a,b \in I \ , b \neq 0 \right\}$$

12.7

$6\frac{3}{4}$

-16

700

$\frac{-8}{9}$

$\frac{4}{5}$

$\sqrt{9}$

3

0.1258

0.3

0.25

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

What did you notice??

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

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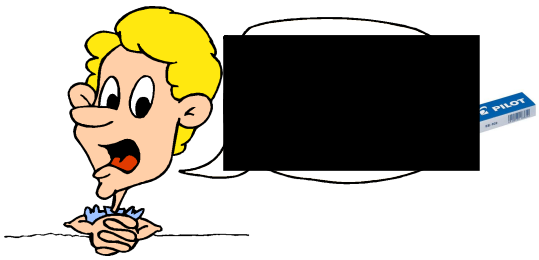


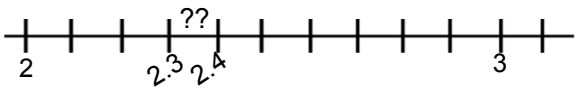
$\frac{-7}{-5} = 1.4$

$\left(-\frac{2}{5}\right) =$

$\left(\frac{2}{-5}\right) =$

$-\left(\frac{2}{5}\right) =$

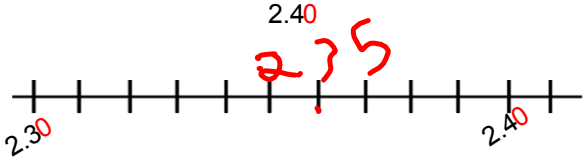
$\left(-\frac{1}{2}\right) \times \left(\frac{2}{3}\right) \times \left(\frac{4}{5}\right) = -\frac{8}{30}$

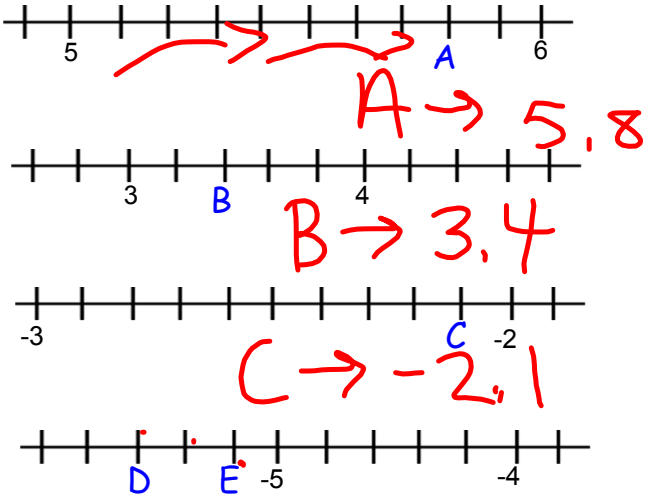


Hint... Add a zero place holder at the end of the decimal.

2.30

2.40





A → 5.8

B → 3.4

C → −2.1

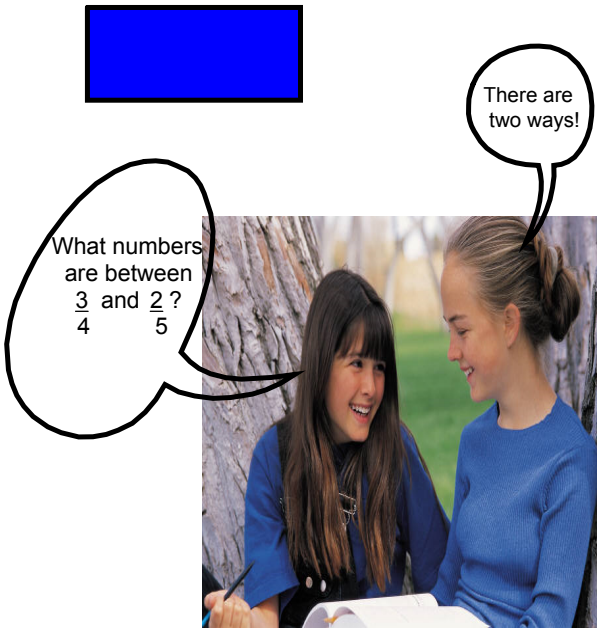
D → −5.6

E → −5.2

1. Change the fractions to decimals.

$\frac{2}{5}$ $\frac{3}{4}$

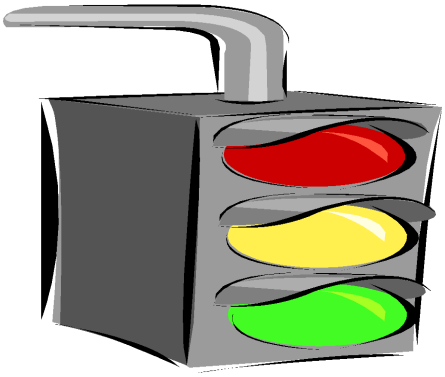
0.4 0.75



2. Write the fractions with common a denominator.

$\frac{2}{5} \times \frac{4}{4}$ $\frac{3}{4} \times \frac{5}{5}$

$\frac{8}{20}$ $\frac{15}{20}$



Homework

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Questions:

5, 6, 7, 8ad, 10bc