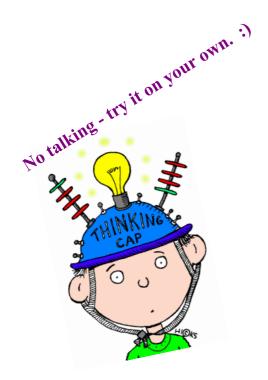
Curriculum Outcome

N1: Demonstrate an understanding of rational numbers by: comparing and ordering rational numbers; solving problems that involve arithmetic operations on rational numbers.

Student Friendly: Learn how to identify and write rational numbers.



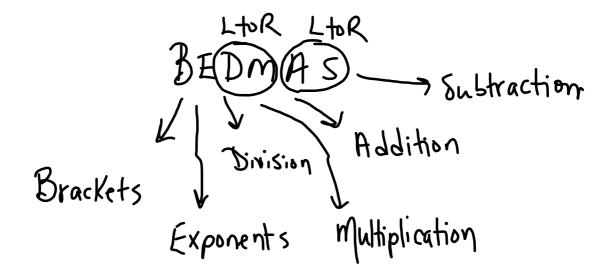


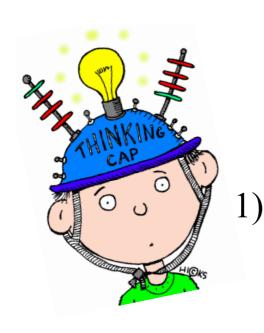
Solve in your notebooks:



1)
$$3 + 7(10 - 6) - 2$$

2)
$$10 \times 5 + 3(12 - 3)$$







Solve in your notebooks:

1)
$$3 + 7(10 - 6) - 2$$

= $3 + 7(4) - 2$
= $3 + 28 - 2$
= $31 - 2$

= 29

Multiplication:

$$2 \times 4$$
 $2(4)$ $J \cdot 4$ $(2)(4)$





2)
$$10 \times 5 + 3(12 - 3)$$

= $10 \times 5 + 3(9)$
= $50 + 27$



"The Chuck Norris of Numbers"

Review of Types of Number Systems Real Rational Q Irrational Integers (I) Whole (W) Natural All non-terminating, Rational numbers are non-repeating decimal \ numbers like TI (3.1415...) numbers that can be Written as a fraction. This includes terminating and $\sqrt{2}$ (1.4142135...). and repeating decimal numbers and the square roots of perfect squares.

THE NUMBER SYSTEM

Natural Numbers: All positive non-zero numbers; counting numbers.

N Ex: 1, 2, 3, etc.

Whole Numbers: Counting numbers including zero.

Ex: 0, 1, 2, 3, etc. M

Integers: Are all positive and negative whole numbers.

(Remember - Zero is neither negative nor positive.)

Ex: ...-3, -2, -1, 0, 1, 2, 3...

Rational Numbers: All whole numbers, fractions, mixed

numbers, decimals numbers and their

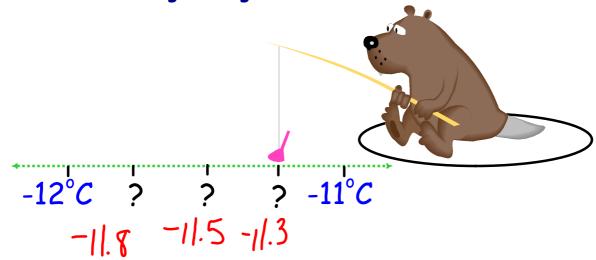
negatives. The decimal numbers must repeat or terminate. Ex: 1/3, 4, 3/4, 3.75, 0.4, $\sqrt{9}$, -2

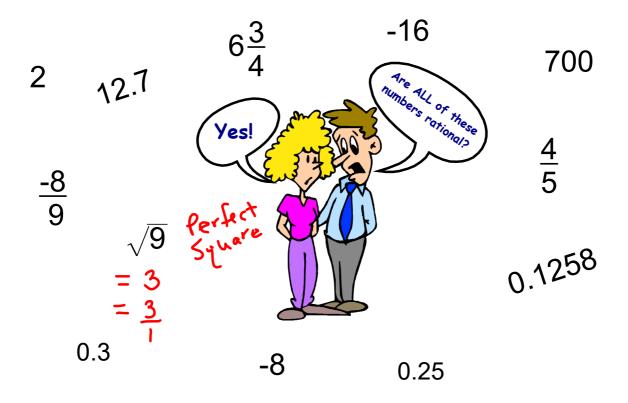
Irrational Numbers: Decimals numbers that never terminate or repeat.

Ex: $\sqrt{2} = 1.414213562...$; $\sqrt{3.1415...}$

Numbers: All rational and irrational numbers are REAL numbers.

Suppose you are ice fishing on Blanchford Lake, NWT. The temperature at midnight is $-12^{\circ}C$. At 6 am the next day, the temperature is $-11^{\circ}C$. What must the temperature have been at some time during the night?





How to change a fraction to a decimal:

Take the top (the numerator) and divide by the bottom (the denominator).

$$3 \div 8 = 0.375$$

terminating decimal number (it ends)

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



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

$$-\frac{7}{5} = -(7 \div 5) = -1.4$$

$$-\frac{7}{5} = 7 \div -5 = -1.4$$
 What did you notice??

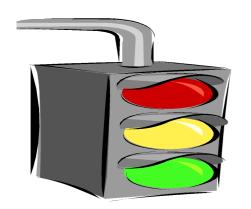


Write 2 more equivalent fractions to the following without changing the 4 and the 9:

$$\frac{-4}{9}$$
 $\frac{4}{-9}$ $\frac{4}{9}$



It is now time for HOME LEARNING!!!



HOME LEARNING:

Pages 101 and 102 - Questions: 5 , 6 , 7 , 12aceh , 13

NOTE:

If there are ONLY fractions in a question, then you must have fractional answers. If the question has fractions AND decimal numbers, then your answer can be in either decimal or fraction form.