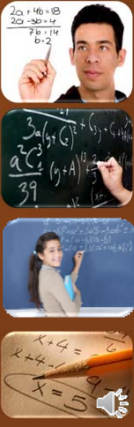



Algebra 1

Real Numbers



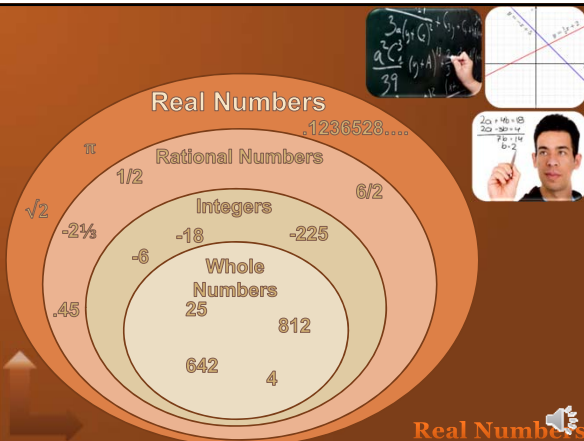
www.MasterMath.info

Real Numbers

Integers
Whole Numbers
Rational Numbers
Opposites
Absolute Value
Operations with Real Numbers



Overview




Real Numbers

Real Numbers


Place these numbers in the appropriate cells below. Some numbers may belong in more than one cell.
 $\frac{1}{2}, .67, \pi, 28, -8, -8\frac{1}{2}$

Real Numbers	Rational Numbers	Integers	Whole Numbers

You Try 

Place these numbers in the appropriate cells below. Some numbers may belong in more than one cell.
 $\frac{1}{2}, .67, \pi, 28, -8, -8\frac{1}{2}$


Real Numbers	Rational Numbers	Integers	Whole Numbers
$\frac{1}{2}, .67, \pi, 28, -8, -8\frac{1}{2}$	$\frac{1}{2}, .67, 28, -8, -8\frac{1}{2}$	28, -8	28


You Try 


Absolute Value

The distance of a real number from the origin

The non-negative value of a number without regard to its sign.

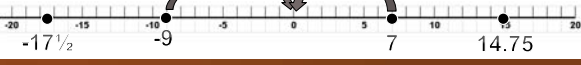







$|-9| = 9$ $|7| = 7$

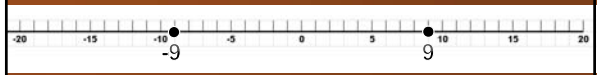
9 steps 7 steps




Real Numbers 

Opposites

Two numbers that are the same distance from zero on the number line, but on opposite sides of zero.

$$-9 + 9 = 0$$


A number line from -20 to 20 with tick marks every 1 unit. Major ticks are labeled at -20, -15, -10, -5, 0, 5, 10, 15, and 20. Two points are marked with dots: one at -9 and one at 9.




Adding Real Numbers

move to the right on the number line


$$8 + 6 = 14$$

Subtracting Real Numbers

move to the left on the number line

$$8 - 16 = -8$$


A number line from -20 to 20 with tick marks every 1 unit. Major ticks are labeled at -20, -15, -10, -5, 0, 5, 10, 15, and 20. Four arrows are drawn: one from 8 to 14, one from 8 to -8, one from 16 to 8, and one from 16 to -8.




$$+8 - 12 = ?$$


$$8 + (-6) = ?$$

+	-	=	-
-	+	=	-


$$8 - (+6) = ?$$

$$8 - 6 = 2$$


A number line from -15 to 15 with tick marks every 1 unit. Major ticks are labeled at -15, -10, -5, 0, 5, 10, and 15. Two points are marked with dots: one at 8 and one at 12.



Multiplying or Dividing Real Numbers **But**



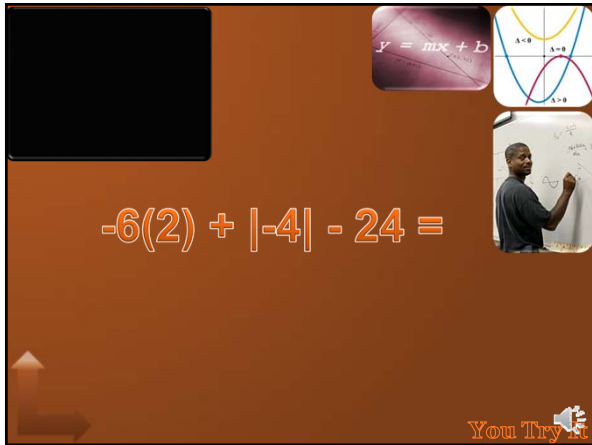
Pos
* or ÷ → Positive
Pos

Neg
* or ÷ → Positive
Neg

$-6 * 5 = 30$
 $6 \div 2 = 3$

$-6 * 5 = -30$
 $-6 \div -2 = 3$

Real Numbers



$-6(2) + |-4| - 24 =$


You Try

$-6(2) + |-4| - 24 =$

$-6(2) + 4 - 24 =$

$-12 + 4 - 24 =$

$-8 - 24 = -32$



PEMDAS

You Try
