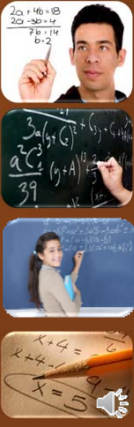




Algebra 1

Rational and Irrational Numbers







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Happy Pi Day
March 14th



Have an irrational day!






Rational vs. Irrational Numbers

Multiplicative Inverse, or Reciprocal


Sign of Product, Quotient, Sum or Difference

Overview 

Rational Number

Ratio: a ratio represents, simply, for every amount of one thing, how much there is of another thing.


The bowl contains 5 apples. Two of the apples are green. What is the ratio of green apples to total apples?



2/5

Rational and Irrational Numbers

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Rational Number: A number that can be written as a ratio

$\frac{1}{3}$

8

Irrational: A number that cannot be written as a ratio

3.1415926535897932384626433832795028841971693993751058209749445923078164062862089986280348253421170679...

Rational and Irrational Numbers



Are these numbers Rational or Irrational? Justify your answer.

.66666666666666666666...

.3869753248623993712...



You Try It

Find the Quotient:

$$\frac{4}{\frac{1}{4}} = 4 * \frac{4}{1} = 16$$



You Try

60(+3)





| Results | a + b | a - b | a * b | a ÷ b |
|-------------|---|-------|------------------------------|------------------------------|
| Positive if | The number with the larger absolute value is positive | a > b | a and b have the same sign | a and b have the same sign |
| Negative if | The number with the larger absolute value is negative | a < b | a and b have different signs | a and b have different signs |
| Zero if | a and b are additive inverses | a = b | a = 0 or b = 0 | a = 0 and b ≠ 0 |

Rational and Irrational Numbers

You Try

1 2 3 E




Word Puzzle: Fill in the blanks (1, 2 and 3, above) with "P" for positive, "N" for Negative, and "O" for zero to answer this question:
 "Is math difficult?"

1: (-6) * (6) is positive, negative or zero?
2: 0 ÷ (-3) is positive, negative or zero?
3: (-3) ÷ (-3) is positive, negative or zero?

You Try

N O P E




Word Puzzle: Fill in the blanks (1, 2 and 3, above) with "P" for positive, "N" for Negative, and "O" for zero to answer this question:
"Is math difficult?"



1: $(-6) * (6) = -36$

2: $0 \div (-3) = 0$

3: $(-3) \div (-3) = 9$

You Try 

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