

Objectives

- Identify and use properties of real numbers.

Properties of Real Numbers

Words	Numbers	Algebra
Additive Identity Property		
Multiplicative Identity Property		
Additive Inverse Property		
Multiplicative Inverse Property		

Example 1

Find the additive and multiplicative inverse of each number:

a) -9

b) $\frac{4}{5}$

Try it! Find the additive and multiplicative inverse of each number:

b) 500

b) -0.01

Properties of Real Numbers

Words	Numbers	Algebra
Closure Property		
Commutative Property		
Associative Property		
Distributive Property		

Example 2

Identify the property demonstrated by each question.

a) $(3\sqrt{3} + 5)2 = (3\sqrt{3})2 + (5)2$

b) $(3 + 6) + (-6) = 3 + [6 + (-6)]$

Try it! Identify the property demonstrated by each question.

a) $9\sqrt{2} = (\sqrt{2})9$

b) $9(12\pi) = (9 \cdot 12)\pi$