

Name Key Date \_\_\_\_\_

## Properties of Real Numbers - Practice A

Match each expression with one of the properties shown.

1. e  $11 + 0 = 11$
2. d  $x \times (y \times z) = (x \times y) \times z$  *Same!*
3. h  $8 + (-8) = 0$  *same order*
4. ~~h~~ a  $14 + 20 = 20 + 14$  *opposites*
5. i  $2 \times \frac{1}{2} = 1$
6. f  $22 \times 1 = 22$  *reciprocal*
7. c  $(19 + 12) + 8 = 19 + (12 + 8)$  *same*
8. b  $a \times 9 = 9 \times a$  *same order*
9. g  $7(4 + 11) = 7(4) + 7(11)$

- a. commutative property of addition
- b. commutative property of multiplication
- c. associative property of addition
- d. associative property of multiplication
- e. additive identity
- f. multiplicative identity
- g. distributive property
- h. additive inverse
- i. multiplicative inverse

Use the properties of real numbers to help simplify each expression mentally.

10.  $(19 + 15) + 5 = 39$   
*19 + 20*

11.  $(-3 + (23) + 48) = 68$   
*20 + 48*

12.  $\$9.50 + \$11.49 + \$0.50 = 21.49$

13.  $(9 \cdot 25) \cdot 4 = 900$   
*9 \cdot 100*

14.  $(-0.50 + 9.89) + 0.50 = 9.89$   
*0 + 9.89*

15.  $6 \times 8 \times 5 = 240$   
*30 \cdot 8*

16. **Mental Math** Sparky went shopping at *Wally World* and bought a pair of socks for \$2.50, a pair of jeans for \$14.95, and some shoes for \$12.50. How much did Sparky spend during his shopping spree?  
 $2.50 + 14.95 + 12.50 = 29.95$

Maybe I should have bought some shoes with a little more lift!



© Mike Walker Math