

Name Key

Date \_\_\_\_\_

**Algebra: Unit 1 Quiz 1: Using Variables and Properties of Real Numbers**

Translate the following word expressions and sentences into algebraic expressions or equations.

- 1. 8 subtracted from a number  $n - 8$
- 2. 3 less than five times a number  $5n - 3$
- 3. A number multiplied by 12 is 84.  $12n = 84$
- 4. 7 less than  $n$  is 22.  $n - 7 = 22$
- 5. A number divided by 3 is 18.  $n \div 3 = 18$

Name the property that each equation illustrates. Be sure to name the operation.

*almost everyone  
props. more diff.*

- 6.  $(17 + 4) + 9 = 17 + (4 + 9)$  Assoc. Prop. of Add.
- 7.  $7(3 + 4) = (7 \cdot 3) + (7 \cdot 4)$  Distributive Property
- 8.  $84 \cdot 26 = 26 \cdot 84$  Comm. Property of Mult.
- 9.  $33 + 0 = 33$  Identity Prop. of Add.
- 10.  $9 \cdot 1 = 9$   $12 \cdot \frac{1}{12} = 1$  Inverse Prop. of Mult.
- 11.  $9 \cdot 1 = 9$  Identity Prop. of Mult.
- 12.  $58 + (-58) = 0$  Inverse Prop. of Add.

*missed most*  
→

*missed most*  
→

*left off Prop. - OK  
left off operation - 1/2*