

1-4**Identity and Equality Properties** (Pages 21–25)

You can use the following properties to justify the steps you use when you evaluate an expression.

Additive Identity Property	The sum of any number and 0 is equal to that number. For any number a , $a + 0 = 0 + a = a$.
Multiplicative Identity Property	Since the product of any number and 1 is equal to the number, 1 is called the multiplicative identity. For any number a , $a \cdot 1 = 1 \cdot a = a$.
Multiplicative Property of Zero	For any number a , $a \cdot 0 = 0 \cdot a = 0$.
Multiplicative Inverse Property	Two numbers whose product is 1 are called multiplicative inverses or reciprocals. For every nonzero number $\frac{a}{b}$, where $a, b \neq 0$, there is exactly one number $\frac{b}{a}$ such that $\frac{a}{b} \cdot \frac{b}{a} = 1$.
Reflexive Property of Equality	The reflexive property of equality says that any number is equal to itself. For any number a , $a = a$.
Symmetric Property of Equality	The symmetric property of equality says that if one quantity equals a second quantity, then the second quantity also equals the first. For any numbers a and b , if $a = b$, then $b = a$.
Transitive Property of Equality	For any numbers a , b , and c , if $a = b$ and $b = c$, then $a = c$.
Substitution Property of Equality	If $a = b$, then a may be replaced by b in any expression.

Practice

Name the multiplicative inverse of each number or variable. Assume that no variable represents zero.

1. 5

2. $\frac{3}{5}$

3. $\frac{4}{c}$

4. $1\frac{1}{3}$

Name the property or properties illustrated by each statement.

5. $x \cdot 1 = x$

6. $\frac{15}{3} + 4 = 5 + 4$

7. $\frac{2}{3} \cdot \frac{3}{2} = 1$

8. $3 \cdot 0 = 0$

9. $11 - 2 = 11 - 2$

10. $0 + n = n$

11. If $13 = 4 + 9$, then $4 + 9 = 13$.

12. If $x + 5 = 3$ and $3 = y$, then $x + 5 = y$.

13. **Standardized Test Practice** Name the multiplicative inverse of $\frac{x+2}{5}$. Assume that $x + 2 \neq 0$.

A $x + \frac{5}{2}$

B $\frac{5}{x+2}$

C $\frac{5}{x} + 2$

D $\frac{1}{x} + \frac{5}{2}$

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Howard Anton,Chris Rorres,Anton Kaul

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