

Name _____ Date _____

Introduction to Geometry
Introduction to Proofs
Warm Up

Match the property of equality to the statement it justifies.

Answer	Property	Statement
	1. Addition Property of Equality	a. If $m\angle A = 45^\circ$, then $3(m\angle A) = 135^\circ$
	2. Subtraction Property of Equality	b. $3(a + b) = 3a + 3b$
	3. Multiplication Property of Equality	c. $m\angle B = m\angle B$
	4. Division Property of Equality	d. If $x = y$ and $y = z$ then $x = z$
	5. Distributive Property of Equality	e. If $x - 14 = 17$, then $x = 31$
	6. Substitution Property of Equality	f. If $\frac{y}{3} = 12$, then $y = 36$
	7. Reflexive Property of Equality	g. If $3x = -45$, then $x = -15$
	8. Symmetric Property of Equality	h. If $x + 3 = 15$, then $x = 12$
	9. Transitive Property of Equality	i. If $BC = RL$, then $RL = BC$