

# MasterMath

Name \_\_\_\_\_

## Solving equations with variables on both sides

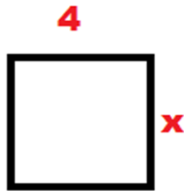
Date \_\_\_\_\_

1. Solve these equations:

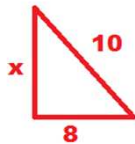
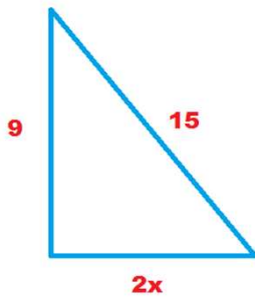
Expression	Solution
$2x + 6 = 8x$	
$1/2x = 15 - 3x$	
$3z - 7 = 6z + 2$	
$16a = 5a + 33$	
$2(y + 3) = y + 8$	
$.25x + 8.5 = x + 1$	
$19v = 4v + 45$	
$8 - x = x + 2$	
$12s + 5 - 3 = 4s$	

Expression	Solution
$5w + 18 = 4w + 5$	
$11x + 11 = 2x + 38$	
$x - 16 = 5x + 16$	
$27x + 1 = 16x - 10$	
$4z - 8 = z + 4$	
$18 - 2z = 6 - 4z$	
$15x + 5 = 30x - 5$	
$18z - 5 = 8z + 5$	
$4x + x = 10 - x$	

2. The perimeter and the area of this shape are equal. What is the value of x?




3. The perimeter of the larger triangle is 150% of the perimeter of the smaller triangle. What is the value of x?




4. These circles are identical. What is the value of x?

