

MasterMath

Name _____

Solving equations with variables on both sides

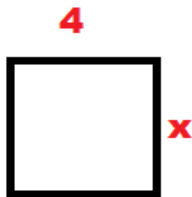
Date _____

1. Solve these equations:

Expression	Solution
$2x + 6 = 8x$	1
$1/2x = 15 - 3x$	4.29
$3z - 7 = 6z + 2$	-3
$16a = 5a + 33$	3
$2(y + 3) = y + 8$	2
$.25x + 8.5 = x + 1$	10
$19v = 4v + 45$	3
$8 - x = x + 2$	3
$12s + 5 - 3 = 4s$	-1/4

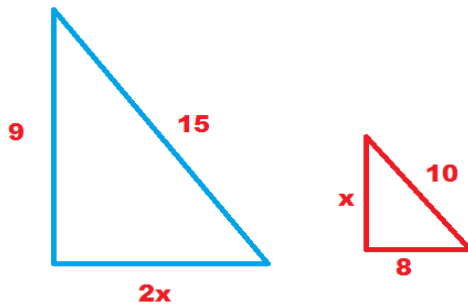
Expression	Solution
$5w + 18 = 4w + 5$	-13
$11x + 11 = 2x + 38$	3
$x - 16 = 5x + 16$	-8
$27x + 1 = 16x - 10$	-1
$4z - 8 = z + 4$	-4
$18 - 2z = 6 - 4z$	-6
$15x + 5 = 30x - 5$.667
$18z - 5 = 8z + 5$	1
$4x + x = 10 - x$	1.667

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



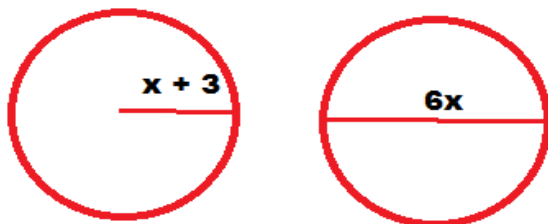
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3. The perimeter of the larger triangle is 150% of the perimeter of the small triangle. What is the value of x ?



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



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