

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

***WS 3C.1 – Solving Equations with the Variable on Both Sides***

#1-10, Solve each equation.

1.  $3(2d - 7) = (2 + 4d)2$

2.  $4 - (2x - 3) = 3(x - 6)$

3.  $5(n - 7) = 2(2 - 2n) - 3$

4.  $22 + 3(a + 6) = -4(3a + 5)$

5.  $8z + 2(3 + 2z) = 3(6 + 2z)$

6.  $4w + 6 - 2w = 3(6 + 2w)$

$$7. -1.5(2d + 4) = 2(3.5 + 4d) - 2$$

$$8. 9(y + 1) + 6 = 2(y + 3)$$

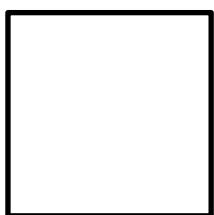
$$9. -2g + 4(4 + g) = 2g - 4(6 - 3g)$$

$$10. 4z + 3(z + 1) = -22(3z - 5)$$

11. The perimeters of the two figures shown are equal. Find the value of  $n$  and the perimeter of the shapes.

$$2n - 5$$

$$2n - 5$$



$$4n - 17$$

$$n + 3$$

