

22- Solving Multi-Step Equations

Solve each equation. Show ALL work.

1. $6 = -3(x + 2)$

2. $-3(4r - 8) = -36$

3. $24 = 6(-x - 3)$

4. $75 = 3(-6n - 5)$

5. $-3(1 + 6r) = 14 - r$

6. $6(6v + 6) - 5 = 1 + 6v$

7. $-4k + 2(5k - 6) = -3k - 39$

8. $-16 + 5n = -7(-6 + 8n) + 3$

9. $10p + 9 - 11 - p = -2(2p + 4) - 3(2p - 2)$

10. $-10n + 3(8 + 8n) = -6(n - 4)$

11. $10(x + 3) - (-9x - 4) = x - 5 + 3$

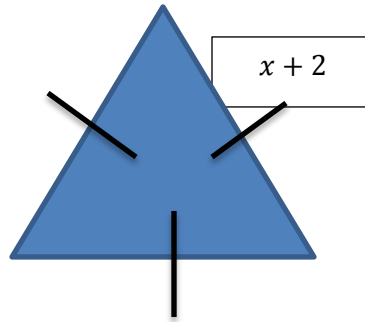
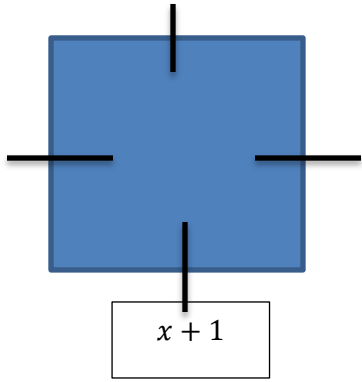
12. $* 12(2k + 11) = 12(2k + 12)$

13. $-12(x - 12) = -9(1 + 7x)$

14. $-11 + 10(p + 10) = 4 - 5(2p + 11)$

The two shapes have the same perimeter (distance around) solve for x .

15.



16. What is the perimeter of the square? _____

17. What is the perimeter of the triangle? _____