

Variable on 2-Sides #1

Date _____ Period _____

Solve each equation.

1) $-3 - 7r = -3r + 1$

2) $2a - 1 = -9 + 4a$

3) $-8 + 4n = -1 + 5n$

4) $x - 6 = 3x - 16$

5) $-5 + 4x = 7x - 8$

6) $2a + 3 = -3 - 2a + 2a$

7) $-14 - 2x = 6x - 6$

8) $5 - 7 + 8m + 4m = m - 2$

9) $-8x + 5x = 7x - 4x + 6$

10) $2n + 8n = n + 8n + 6$

11) You are seeking to be emancipated from your parents. You are looking for an apartment. There are two final choices. Apartment A has a \$1000 security deposit and costs \$1200 each month. Apartment B has a \$1500 and costs \$1175 each month. How many months, m , will it take for the costs to be the same?

12) Lenny makes \$55,000 and is getting annual raises of \$2,500. Karl makes \$62,000, with annual raises of \$2,000. How many years, y , will it take for Lenny and Karl to make the same salary?