3.4 Solve Equations with Variables on Both Sides- NOTES

**Teacher Does**

D-R-E-A-M

1. 8t + 5 = 6t + 1

2. 7(r + 7) = 5r + 59

**Class Does**

D-R-E-A-M

3. k – 1 = 3k + 1

4. 40 + 14j = 2(-4j – 13)

**Student Does**

D-R-E-A-M

5. 8c + 5 = 4c – 11

6. 3(d + 12) = 8 – 4d

Solve the equation, if possible.

**D-R-E-A-M**

7. 12 + 5v = 2v – 9

8. w + 3 = w + 6

**D-R-E-A-M**

9. 16d = 22 + 5d

10. 22x + 70 = 17x – 95

**D-R-E-A-M**

11. 8z = 4(2z + 1)

12. 2x + 10 = 2(x + 5)

13. A car dealership sold 78 new cars and 67 used cars this year. The number of new cars sold by the dealership has been increasing by 6 cars each year. The number of used cars sold by the dealership has been decreasing by 4 cars each year. If these trends continue, in how many years will the number of new cars sold be twice the number of used cars sold?