

Algebra I
Review for Quiz #5 (3.5)

NAME: _____
DATE: _____ HOUR: _____

You may NOT use a calculator on Quiz #5.

Part I. Draw and use algebra tiles to solve the equation. Box and check your solutions.

1. $x + 2 = 5$

2. $x - 6 = -7$

Part II. For each equation, show ALL steps to solve for x. Box and check each solution.

1. $12 + x = 11$

2. $-10 = x + 13$

3. $x - 10 = -20$

4. $4 = x + -1$

5. $2 + x + 3 = 15$

6. $x + a = b$ (solve for x)

7. $2x + 5 - x = 3$

8. $c + x = -b$ (solve for x)

Part III. For each problem, write an equation that describes the situation (each equation must contain the variable “x”) then solve your equation for x (showing ALL steps to solve). Box and check your solution.

1. In 10 years, Suzie will be 34 years old. How old is Suzie today? Let x = her current age.
2. Yesterday the temperature was 60° . Today the temperature is 40° . What is the difference in temperatures? Let x = temperature change.
3. Sharon bought two items costing \$10 and \$15 plus tax. She gave the cashier \$40 and received \$2 change. How much was the tax? Let x = tax amount.
4. If your odometer read 500 miles **after** you went on a 100 mile trip, what was your odometer reading **before** your trip? Let x = your odometer reading before your trip.