

Extra Practice: (5.6) Solving Story Problems Using Equations

Key

Pre-Algebra

Name _____

- 1) Huong won 45 super bouncy balls playing hoops at the county fair. At school she gave one to every student in her math class. She only has 33 remaining. How many did she give away?

$$45 - x = 33$$

$$-x = -12$$

$$x = 12 \text{ bouncy balls}$$

- 3) Mike wants to buy a lizard for \$17. He gives the cashier \$20. How much change does he receive?

$$20 - x = 17$$

$$-x = -3$$

$$x = \$3$$

- 5) James spent half of his weekly allowance at the movies. To earn more money his parents let him wash the car for \$10. What is his weekly allowance if he ended with \$13?

$$13 = \frac{1}{2}x + 10$$

$$3 = \frac{1}{2}x$$

$$\$6 = x$$

- 7) The Cooking Club made some pies to sell during lunch to raise money for an end-of-year banquet. The cafeteria contributed four pies to the club. Each pie was then cut into four pieces and sold. There were a total of 52 pieces to sell. How many pies did the club make?

$$\frac{52}{4} = x + 4$$

$$13 = x + 4$$

$$9 \text{ pies} = x$$

- 9) The sum of three consecutive odd numbers is 33. What is the smallest of these numbers?

$$x + (x+2) + (x+4) = 33$$

$$3x + 6 = 33$$

$$3x = 27$$

$$x = 9$$

- 2) At a restaurant, Jennifer and her four friends decided to divide the bill evenly. If each person paid \$20, then what was the total bill?

$$x \div 5 = 20$$

$$x = \$100$$

- 4) Maria wants to buy a microphone for \$139. She gives the cashier \$140. How much change does she receive?

$$140 - x = 139$$

$$-x = -1$$

$$x = \$1$$

- 6) Shawna had some candy to give to her four children. She first took three pieces for herself and then evenly divided the rest among her children. Each child received two pieces. With how many pieces did she start?

$$\frac{x-3}{4} = 2$$

$$x-3 = 8$$

$$x = 11 \text{ pieces}$$

- 8) 207 students went on a field trip. Four buses were filled and 7 students traveled in cars. How many students were in each bus?

$$4x + 7 = 207$$

$$4x = 200$$

$$x = 50 \text{ students}$$

- 10) The sum of three consecutive even numbers is 42. What is the smallest of these numbers?

$$x + (x+2) + (x+4) = 42$$

$$3x + 6 = 42$$

$$3x = 36$$

$$x = 12$$