

Unit 4: Expressions and More Equations

CONCEPT

Name: _____ Date: _____

Solve each problem. Write your answer in simplest form on the line provided.

1. Solve for x : $x + 6 = 14$

Answer: _____

2. Solve for x : $x - 3 = 9$

Answer: _____

3. Solve for x : $5x = 40$

Answer: _____

4. Solve for x : $x/4 = 7$

Answer: _____

5. Solve for x : $x + 9 = 5$

Answer: _____

6. Use the distributive property to write $3(x + 5)$ without parentheses. Give your answer as an expression.

Answer: _____

7. Combine like terms: $4x + 7x$

Answer: _____

8. Combine like terms: $9x - 2x + 6$

Answer: _____

9. Solve for x : $2x = x + 8$

Answer: _____

10. Solve for x : $3x + 4 = 19$

Answer: _____

11. How many solutions does this equation have? $x + 5 = x + 2$. Answer with a number (0), the word for infinitely many (infinite), or 1.

Answer: _____

12. How many solutions does this equation have? $2x + 6 = 2(x + 3)$. Answer with 0, 1, or infinite.

Answer: _____