

Unit 3: Equations and Inequalities

PRACTICE

Name: _____ Date: _____

Solve each equation or inequality. Show your work and write your final answer in simplest form.

1. Solve for x: $3(x + 4) = 27$

Answer: _____

2. Solve for x: $5x - 8 = 32$

Answer: _____

3. Solve for x: $-2(x - 6) = 10$

Answer: _____

4. Solve for x: $(x/4) + 7 = 12$

Answer: _____

5. Solve for x: $6x + 15 = 3$

Answer: _____

6. Solve for x: $8(x + 2.5) = 36$

Answer: _____

7. Solve for x: $4x - 9 = -25$

Answer: _____

8. Solve for x: $-3x + 11 = 2$

Answer: _____

9. Solve for x: $2(x + 7) = 5$. Give your answer as a fraction.

Answer: _____

10. Solve the inequality for x: $10x - 4 > 26$

Answer: _____

11. Solve the inequality for x: $3(x + 2) < 18$

Answer: _____

12. Solve the inequality for x: $-5x + 3 < -12$

Answer: _____