

Unit 6: Expressions, Equations, and Inequalities

PRACTICE · SET 2

Name: _____ Date: _____

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

1. Solve for x: $3x + 7 = 22$

Answer: _____

2. Solve for x: $5x - 4 = 26$

Answer: _____

3. Solve for n: $2n + 9 = 3$

Answer: _____

4. Solve for x: $4x + 5 = 17$

Answer: _____

5. Solve for y: $(y/3) + 6 = 10$

Answer: _____

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

Answer: _____

7. Solve for x: $6x - 8 = 10$

Answer: _____

8. Solve for m: $(m/4) - 2 = 5$

Answer: _____

9. Solve the inequality for x: $2x + 5 > 13$. Give the answer in the form $x >$ value.

Answer: _____

10. Solve the inequality for x: $4x - 3 < 9$. Give the answer in the form $x <$ value.

Answer: _____

11. A taxi charges a \$4 flat fee plus \$2 per mile. The total cost was \$20. Write and solve $2m + 4 = 20$ to find the number of miles m.

Answer: _____

12. Solve for x: $8x + 3 = 3$

Answer: _____