

CHAPTER 4 Practice Test

Name _____

Date _____

Show work. Check equation solutions. For inequalities, label endpoints and draw the complete ray. Explain and interpret when asked.

1. Solve and check $x + \frac{7}{12} = -\frac{2}{3}$.

2. Solve and check $x - 4.65 = -1.8$.

3. Solve and check $-\frac{7}{9}x = \frac{14}{3}$.

4. Solve and check $\frac{x}{-8} = -\frac{5}{4}$.

5. Solve and check $3(x - 7) = -12$.

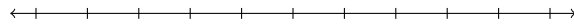
6. Solve and check $8x - 5x + 4 = -11$.

CHAPTER 4 Practice Test (Continued)

7. Write an inequality for each statement: (a) a number n is no less than -8 ; (b) a number q minus $\frac{3}{5}$ is more than $\frac{1}{2}$.

8. Tell whether $x = -3$ is a solution of $4x + 2 \leq -9$. Show substitution.

9. Solve and graph $x < \frac{5}{4}$.



10. Solve and graph $x - \frac{5}{6} \geq -\frac{1}{3}$.



11. Solve and graph $-\frac{4}{5}x < 8$.



CHAPTER 4 Practice Test (Continued)

- 12.** Solve and graph $-3(x + 2) \leq 15$.



- 13.** A climbing gym charges a \$9 equipment fee plus \$7.50 per hour. A visitor pays \$31.50. Write and solve an equation for the time and check it.

- 14.** A craft group has \$68 for materials. It spends \$17 on a shared tool and \$3.75 per kit. Write and solve an inequality for the number of kits. Give and verify the greatest whole-number count.

- 15.** A student solves $-2x + 1 < 9$ and reports $x < -4$. Identify the error, correct the solution, and test one value that exposes the error.
