

Lesson 1 Homework Practice

Solve Equations with Rational Coefficients

Solve each equation. Check your work.

1. $\frac{1}{2}x = 14$

2. $\frac{4}{7}w = 24$

3. $\frac{3}{8}r = \frac{15}{16}$

4. $\frac{5}{7}c = \frac{13}{14}$

5. $0.4t = 0.72$

6. $1.8p = 19.8$

7. $-\frac{5}{8}y = -\frac{1}{2}$

8. $\frac{13}{7}n = -\frac{13}{14}$

9. $-5.2 = 0.04m$

10. $-0.8g = 3.36$

11. $-2h = -1.46$

12. $-\frac{7}{9}s = -\frac{1}{3}$

Define a variable. Then write and solve an equation for each situation.

- 13. COOKING** Simone peeled 14 potatoes in $\frac{1}{5}$ hour. At this rate, how many potatoes can Simone peel in one hour?
- 14. VOTING** In the eighth grade, 322 students voted for the new mascot to be a tiger. This was $\frac{7}{10}$ of the total number of students in the eighth grade. How many students are in the eighth grade?
- 15. BUDGETS** Rachel budgeted \$76.50 for school clothes. This is 0.45 of her total budget. How much does Rachel have in her total budget?
- 16. TEMPERATURE** Overnight, the temperature dropped 1.3 degrees every hour. How many hours did it take the temperature to drop 7.8 degrees?