

Linear Functions Review

Solving Equations 2

Solve each equation. Then check your solution.

1. $-4c - 11 = 4c + 21$

2. $14 + 5n = -4n + 17$

3. $\frac{1}{2}(6 - z) = z$

4. $4(4 - w) = 3(2w + 2)$

5. $3(6 + 5y) = 2(-5 + 4y)$

6. $6 + 2(3j - 2) = 4(1 + j)$

7. $1.4f + 1.1 = 8.3 - f$

8. $2 - \frac{3}{4}z = \frac{1}{8}z + 9$

9. $\frac{v}{46} = \frac{34}{23}$

10. $\frac{3}{u} = \frac{27}{162}$

11. $\frac{5}{11} = \frac{35}{x}$

12. $\frac{g}{16} = \frac{6}{4}$

13. $\frac{3}{q} = \frac{5}{6}$

14. $\frac{3}{0.72} = \frac{12}{b}$

For each word problem, write an equation and solve to answer the question.

15. A rectangle has a perimeter of 24 inches. Find its dimensions if its length is 3 inches greater than its width.

16. On his vacation to Arizona, Walker wants to visit Petrified National Forest and Meteor Crater. On a map with a scale where 2 inches equals 75 miles, the two areas are about $1\frac{1}{2}$ inches apart. What is the real distance between these two destinations?