

1

Practice Test

Solve the equation. Check your solution, if possible.

1. $4 + y = 9.5$

2. $-\frac{x}{9} = -8$

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

4. $15 = 9 - 3a$

5. $4(b + 5) - 9 = -7$

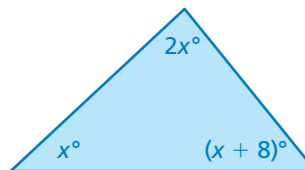
6. $9j - 8 = 8 + 9j$

7. $3.8n - 13 = 1.4n + 5$

8. $9(8d - 5) + 13 = 12d - 2$

9. $\frac{1}{4}t + 4 = \frac{3}{4}(t + 8)$

10. The sum of the angle measures of a triangle is 180° . Find the value of x . Then find the angle measures of the triangle.



11. A formula for the perimeter of a rectangle is $P = 2\ell + 2w$.

- Solve the formula for w .
- Use the new formula to find the width w (in meters) of a rectangle with a perimeter of 2 meters and a length of 40 centimeters.

12. Solve $0.5 = 0.4y - 0.25x$ for y .

13. Your basketball team wins a game by 13 points. The opposing team scores 72 points. Explain how to find your team's score.

14. You are biking at a speed of 18 miles per hour. You are 3 miles behind your friend, who is biking at a speed of 12 miles per hour. Write and solve an equation to find the amount of time it takes for you to catch up to your friend.



15. Two scientists are measuring the temperatures of lava. One scientist records a temperature of 1725°F . The other scientist records a temperature of 950°C . Which is the greater temperature?
16. Your profit for mowing lawns this week is \$24. You are paid \$8 per hour and you paid \$40 for gas for the lawn mower. How many hours did you work this week?