

1.3–1.4 Quiz



Solve the equation. Check your solution. (Section 1.3)

1. $2(x + 4) = -5x + 1$

2. $\frac{1}{2}s = 4s - 21$

3. $8.3z = 4.1z + 10.5$

4. $3(b + 5) = 4(2b - 5)$

Solve the equation. Graph the solutions, if possible. (Section 1.3)

5. $|d + 10| = 6$

6. $-4|w - 1| = -8$

Solve the equation for y . (Section 1.4)

7. $6x - 3y = 9$

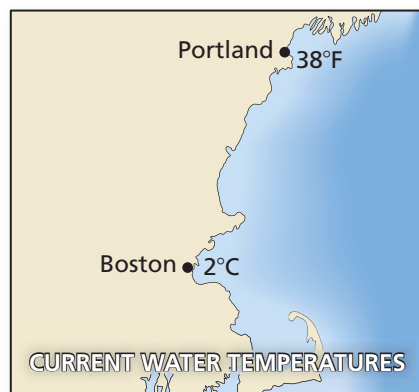
8. $8 = 2y - 10x$

Solve the formula for the red variable. (Section 1.4)

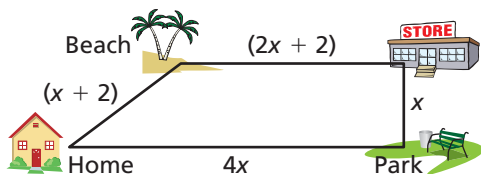
9. Volume of a cylinder: $V = \pi r^2 h$

10. Area of a trapezoid: $A = \frac{1}{2}h(b + B)$

11. **TEMPERATURE** In which city is the water temperature higher? (Section 1.4)



12. **INTEREST** The formula for simple interest I is $I = Prt$. Solve the formula for the interest rate r . What is the interest rate r if the principal P is \$1500, the time t is 2 years, and the interest earned I is \$90? (Section 1.4)



13. **ROUTES** From your home, the route to the store that passes the beach is 2 miles shorter than the route to the store that passes the park. What is the length of each route? (Section 1.3)

14. **PERIMETER** Use the triangle shown. (Section 1.4)

- Write a formula for the perimeter P of the triangle.
- Solve the formula for b .
- Use the new formula to find b when a is 10 feet and c is 17 feet.

