

# 1.4–1.5 Quiz



Solve the equation for  $y$ . (Section 1.4)

1.  $6x - 3y = 9$

2.  $8 = 2y - 10x$

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

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

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

Copy and complete the statement. (Section 1.5)

5.  $30 \text{ cm} \approx \square \text{ in.}$

6.  $0.7 \text{ km} \approx \square \text{ mi}$

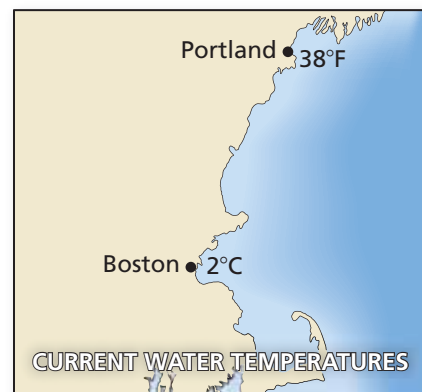
7.  $15 \text{ L} \approx \square \text{ qt}$

8.  $3000 \text{ cm}^2 = \square \text{ m}^2$

9.  $45 \text{ in.}^3 = \square \text{ ft}^3$

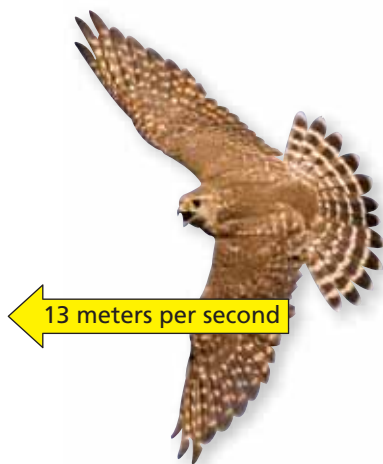
10.  $50 \text{ yd}^3 = \square \text{ ft}^3$

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 \$900? (Section 1.4)

13. **HIKING** The Black Mountain Loop, a hiking trail near Lake George, NY, is 7 miles long. How long is the trail in kilometers? (Section 1.5)



14. **MEDICINE** A grain is a measure of weight equal to 0.06 gram. An aspirin tablet weighs 5 grains. How many milligrams does the tablet weigh? (Section 1.5)

15. **HAWK** What is the speed of the hawk in kilometers per hour? (Section 1.5)