

# 2-5 & 6 Practice

Form G

## Literal Equations, Formulas & Conversions

Solve each equation for  $m$ . Then find the value of  $m$  for the value of  $n$ .

1.  $m + 3n = 7$  when  $n = -2$

2.  $3m - 9n = 24$  when  $n = 3$

3.  $-5n = 4m + 8$  when  $n = 0$

4.  $2m = -6n - 5$  when  $n = 1$

Solve each equation for  $x$ .

5.  $fx - gx = h$

6.  $qx + x = r$

7.  $m = \frac{x+n}{p}$

8.  $d = f + fx$

9.  $-3(x + n) = x$

10.  $\frac{x-4}{y+2} = 5$

Copy and complete each statement.

11.  $25 \text{ mi/hr} = \underline{\hspace{1cm}} \text{ m/min}$

12.  $32 \text{ mi/gal} = \underline{\hspace{1cm}} \text{ km/L}$

$1609.3 \text{ meters} = 1 \text{ mile}$

$1.6 \text{ km} = 1 \text{ mile} \quad 3.78 \text{ L} = 1 \text{ gal}$

13.  $10 \text{ m/s} = \underline{\hspace{1cm}} \text{ ft/s}$

14.  $14 \text{ gal/s} = \underline{\hspace{1cm}} \text{ qt/min}$

$1 \text{ meter} = 3.28 \text{ ft}$

15.  $15 \text{ dollars/hr} = \underline{\hspace{1cm}} \text{ cents/min}$

16.  $7 \text{ days} = \underline{\hspace{1cm}} \text{ s}$

**17.** The builder measures the perimeter of the foundation to be 425 ft. He must order steel beams to install around the perimeter of the foundation. Steel must be ordered in meters. How many meters of steel should the builder order?

**18.** Mrs. Jacobsen purchased a 5-pound package of ground beef for \$12.40. She decided to use 8 ounces each day for dinner recipes. What was the cost of ground beef per meal?

**19.** Car 1 drove 408 miles in 6 hours and Car 2 drove 365 miles in 5 hours during the cross-country road race. Who had the fastest average speed?