

1. Dr. Peterson works about 178 hours each month. Which of the following is the best estimate of the number of hours she works in a year? *12 months*
- (A)  $200 \times 20$                        $200 \times 10$   
 (B)  $180 \times 10$                        $180 \times 10$   
 (C)  $100 \times 12$   
 (D)  $100 \times 10$

4. Choose all of the expressions that are equal to 5,600.
- $56 \times 10^2$      $5,600$   
  $56 \times 10^3$      $56,000$   
  $56 \times 10^4$      $560,000$   
  $100 \times 56$      $5,600$   
  $1,000 \times 56$      $56,000$

2. A banana contains 105 calories. Last week, Brendan and Lea ate a total of 14 bananas. How many calories does this represent?

$$\begin{array}{r} 105 \\ \times 14 \\ \hline 420 \\ 1050 \\ \hline 1470 \end{array}$$

*They ate 1,470 calories of bananas.*

5. The latest mystery novel costs \$24. The table shows the sales of this novel by a bookstore.

	Day	Books Sold
DATA	Thursday	98
	Friday	103
	Saturday	157
	Sunday	116

3. At a warehouse, 127 delivery trucks were loaded with 48 packages on each truck.

**Part A**

Estimate the total number of packages on the trucks. Write an equation to model your work.

$$125 \times 50 = 6250$$

*or*

$$100 \times 50 = 5000$$

*or*

$$120 \times 50 = 6000$$

**Part B**

Did you calculate an overestimate or an underestimate? Explain how you know.

$$\begin{array}{r} 127 \\ \times 48 \\ \hline 1016 \\ 5080 \\ \hline 6096 \end{array}$$

**Part A**

What was the dollar amount of sales of the mystery novel on Saturday? Write an equation to model your work.

$$157 \times \$24 = S \quad (S = \text{sales on Saturday})$$

$$\begin{array}{r} 157 \\ \times 24 \\ \hline 628 \\ 3140 \\ \hline 3768 \end{array}$$

$S = \$3,768$

**Part B**  $\$3,768$  — sales on Sat.

What was the dollar amount of sales of the mystery novel on Friday? Write an equation to model your work.

$$103 \times \$24 = S$$

$$S = \$2,472$$

$$\begin{array}{r} 103 \\ \times 24 \\ \hline 412 \\ 2060 \\ \hline 2472 \end{array}$$

$\$2,472$