

Warm-Up

$$\begin{array}{r} 724 \\ \times 9 \\ \hline 6516 \end{array}$$

139×105
 14595

$139 - 65 = 74$
 $223 - 105 = 118$

118×65
 7670

65 ft

223

A) Find the perimeter (fencing) 724 ft
 B) Find the area $22,265 \text{ ft}^2$
 C) Suppose I needed fencing for 9 of this design. How much fencing is that? 6516 ft

1.10 Solving Application Problems

Indicator Words

Steps to Solve Application Problem

1. Read the problem carefully
2. Work out a plan
3. Estimate
4. Do Exact: Solve the problem
5. State your answer (units, sentence)
6. Check your work

Ex 1: At a recent garage sale, the total sales were \$584. If the money was **divided equally** among Tom, Rosetta, Maryann and Jose, how much did each person get?

Estimate

$$600 \div 4 \\ \$150$$

Exact

$$4 \overline{) 584} \\ \begin{array}{r} 146 \\ 4 \times 100 = 400 \\ 4 \times 40 = 160 \\ 4 \times 6 = 24 \\ \hline 584 \end{array}$$

Each person got \$146

check

$$\begin{array}{r} 146 \\ \times 4 \\ \hline 584 \end{array} \checkmark$$

Ex 2: One week Maureen, a manager, decided to **total** the wagon production at Radio Flyer. The daily production value was 7642 wagons on Mon, 8150 on Tues, 7916 on Wed, 8419 on Thurs, and 7704 on Fri. Find the **total** production for the week.

Estimate

$$\begin{array}{r} 8000 \\ 8000 \\ 8000 \\ 8000 \\ + 8000 \\ \hline 40,000 \end{array}$$

Exact

$$\begin{array}{r} 7642 \\ 8150 \\ 7916 \\ 8419 \\ + 7704 \\ \hline 39,831 \end{array}$$

The total production for the week was 39,831 wagons

Ex 3: The number of students enrolled at Chabot College this year is 4084 fewer than the number of students enrolled last year. Enrollment last year was 21,382. Find the enrollment this year.

$$\begin{array}{r} \text{Estimate} \\ 20,000 \\ - 4,000 \\ \hline 16,000 \end{array}$$

$$\begin{array}{r} \text{Exact} \\ 21382 \\ - 4084 \\ \hline 17298 \end{array}$$

This year there were 17,298 students enrolled.

$$\begin{array}{r} \text{Check} \\ 17298 \\ + 4084 \\ \hline 21382 \end{array}$$

Ex 4: In May, a landlord received \$720 from each of eight tenants. After paying \$2180 in expenses, how much rent money did the landlord have left?

$$\begin{array}{r} \text{Estimate} \\ 700 \\ \times 8 \\ \hline 5600 \\ - 2000 \\ \hline 3600 \end{array}$$

$$\begin{array}{r} \text{Exact} \\ 720 \\ \times 8 \\ \hline 5760 \\ - 2180 \\ \hline 3580 \end{array}$$

The landlord has \$3580 after her expenses.

Assignment: 1.10 Packet
#1-10, 15, 18, 22, 26, 28,
29, 31, 34, 35, 38, 39