

Lesson 3f: Problem Solving Decision:

Objective: Explain your solution

Complete on a separate sheet of paper and turn in to the basket.

Warm-up:

Find each product.

1. $72 \times 48 =$
2. $59 \times 82 =$
3. $824 \times 38 =$
4. $68 \times 307 =$

Learn about it:

When you solve a problem, you may need an exact computation to explain your solution. At other times, an estimate may be sufficient.

Problem:

For the past 3 years, the Antique Automobile Club's show has averaged 880 tickets sold per year. Ticket sales are expected to be about the same this year. If the show cost \$30,000 to put on, will a ticket price of \$35 be enough to cover costs?

Do I need an exact answer or is a range of estimates good enough?

Estimate first.

$$800 \times \$30 = \$24,000$$

$$900 \times \$40 = \$36,000$$

I can't tell if \$35 will work. Find the exact answer. $880 \times \$35 = \$30,800$

Since $\$30,800 > \$30,000$, a ticket price of \$35 will be enough to cover costs. In this case an estimate did not give the needed information to solve the problem.

Practice: Complete in your journal

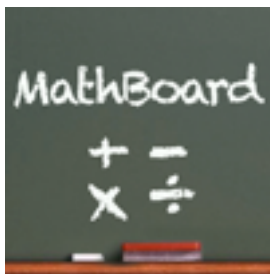
1. Zida and Sarah are driving from New York to San Francisco. The trip is 2,934 miles. If they travel a maximum of 385 miles per day, will they complete the trip in a week.?

2. There are 36 antique cars on display at the antique auto show. A photographer wants to take 16 shots of each car. If he has rolls of film with 24 rolls of film be enough?

Practice 3.8

Complete one per group; be prepared to teach your classmates.

App on the iPad: Mathboard multiplication



Homework: Worksheet 3.7