Unit 6, Lesson 22

Different Ways to Solve Problems

Let's reason about and solve multi-step problems.

Warm-up

Which Three Go Together: Expressions with 5 or 90

Which 3 go together?

A

$$5 \times 90$$

B

$$90 + 90 + 90 + 90 + 90$$

C

$$(4 \times 90) + (1 \times 90)$$

D

$$3 \times 3 \times 10 \times 5$$

Activity 1

Going on a Field Trip

1. There are 45 students going on a field trip to a museum. Tickets for the museum are $18 each. Teachers have $900 to buy tickets for the trip. Will this be enough money to buy a ticket for every student?

   If yes, will there be any leftover money? How much?

   If no, how much more money is needed?

2. Your teacher will show 5 strategies for answering the first question. Analyze the strategies.

   a. Which strategy is closest to yours? With a partner, take turns explaining how your strategy is close to the poster you chose.

   b. Discuss a different strategy with your partner. Try using this strategy to find the value of 14×35.

Activity 2

A Trip to the Movies

Movie tickets are $9 each. The theater sells the same number of tickets 2 days in a row.

The theater made $3,132 from ticket sales on the first day.

1. Record and answer one question of your choice from the list the class generated. Discuss your strategy with your partner.

   _____

   _____

2. Use the given information about movie tickets to complete the following statement:

   _____ tickets were sold on the first and second days.

3. A medium drink is $7 and small popcorn is $5. If each ticket holder purchases popcorn and a drink, how much money will the theater collect from the sales of popcorn and drinks?