



# 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  $14 \times 35$ .

## 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.

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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?