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## 3-10 Problem-Solving Investigation: Reasonable Answers - Mixed Problem Solving

## Determine reasonable answers.

**3. CLOTHES** Annie wants to buy 2 pairs of capris for \$34.99 each and 3 pairs of flip-flops for \$7.99 each. Does she need to save \$150, or is \$100 enough?

\$100 is enough to save for the items Annie wants to purchase.

**5. PLAYGROUND** The length of a playground is 88.5 yards. Which is a more reasonable estimate for the length of the playground in feet: 240 or 270?

$$88.5 \times 3 = 265.5$$

270 feet is a reasonable estimate for the length of the playground.

Use any strategy to solve. Some strategies are shown below.

## PROBLEM-SOLVING STRATEGIES

- Make a table.
- Guess and check.
- **7. SHOPPING** An online store sells personalized magnets for \$3.25 each and personalized keychains for \$5.79 each. If Mrs. Anderson spent \$56.78 on magnets and keychains, how many of each did she buy?

## **Guess and Check:**

$$5 \times \$3.25 = \$16.25$$
  
 $7 \times \$5.79 = \$40.53$   
 $\$16.25 + \$40.53 = \$56.78$ 

Use the table below that shows the number of CD singles that were shipped for sale from 2001 to 2005.

Year	CD Singles
	Shipped (millions)
2001	17.3
2002	4.5
2003	8.3
2004	3.1
2005	2.8

**9.** Which year had about 5 million less CDs shipped than 2003?

$$8.3 - 5 = 3.3$$

2004 had about 5 million less CDs shipped than in 2003.

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11. **NUMBERS** John wrote down two numbers. The product of the numbers is 48 and the difference between the two numbers is 8. What are the two numbers John wrote down?

**Explore:** We know that John wrote down two numbers and the difference between the two numbers is 8. We need to find the numbers.

**Plan:** Guess two numbers and check whether their product is 48 and the difference is 8 between the two numbers.

**Solve:** Guess 4 and 12.  $4 \times 12 = 48$ ; 12 - 4 = 8 The numbers are 4, and 12.