Read and Understand

What do I know?

Susan has 42 CDs and Larry has 26 CDs.

What am I asked to find?

The difference between the number of CDs from these two collections.

How do you know this problem asks you to find the difference between the number of CDs Susan and Larry have? [The problem asks how many more CDs Susan has than Larry.]

Plan and Solve

Draw a Picture

| Susan | 42 CDs | |
| Larry | *n* | 26 |

Write an Equation

Let *n* = the number of additional CDs Susan has.

$42 - 26 = n$

$$\begin{array}{r} \overset{3}{\cancel{4}}\overset{1}{2} \\ -\ 2\ 6 \\ \hline 1\ 6 \end{array}$$

Susan has 16 more CDs in her collection than Larry.

How does the picture represent this problem? [It shows that you know how many CDs Susan has and how many CDs Larry has.] *How can you use the picture to write the equation?* [The difference between the two quantities is the answer.]

Guided Practice*

Do you know HOW?

Draw a picture and write an equation. Solve.

1. Alec prints digital photos at a camera store. The first order was for 24 prints. The second order was for 85 prints, and the third for 60 prints. How many fewer prints were in the first order than the third order?
See margin.

Do you UNDERSTAND?

2. What phrase from the above example gives you a clue that you will use subtraction in your drawing to solve the problem?
How many more

3. **Write a Problem** Write a real-world problem that uses subtraction and can be solved by drawing a picture and writing an equation. **Check students' problems. Answers will vary.**

Independent Practice

In **4**, copy and complete the picture. Then write an equation and solve.

4. Rose needs 22 tacos for a party. She has made 12 tacos so far. How many more tacos does Rose need to make?
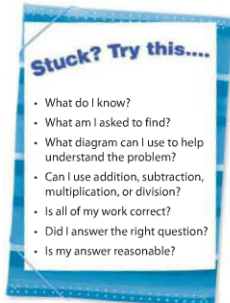**See margin.**

| | 12 |

In **5**, draw a picture, write an equation in two different ways, then solve.

5. Aryanna is planning to spend a certain number of days on a trip to Florida. If she plans to spend 5 of the days in Orlando, she'll have 16 more days for the rest of her vacation. How many days does Aryanna plan to spend in Florida?
See margin.

*For another example, see Set D on page 53.

Stuck? Try this....

- What do I know?
- What am I asked to find?
- What diagram can I use to help understand the problem?
- Can I use addition, subtraction, multiplication, or division?
- Is all of my work correct?
- Did I answer the right question?
- Is my answer reasonable?

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2 **Guided Practice** 🌼 **Formative Assessment**

Remind students to use pictures or write an equation to help solve the problem.

Exercise 3
Error Intervention

If students have difficulty writing a problem,

then have them consider what action is involved in the problem. They may want to shade things in a different color or mark the items that are being subtracted. *When you finish writing your problem, go back and check to see if it works and if it uses subtraction. Then see if a partner can solve your problem.*

Reteaching For another example and more practice, assign **Reteaching** Set D on p. 53.

3 **Independent Practice**

Students may have difficulty identifying all of the information they need in order to solve a problem. Remind them to draw a picture and write an equation to help with problem solving.

Exercise	Content
4	Subtraction $(22 - 12)$
5	Addition $(5 + 16)$

Students use underlying processes and mathematical tools for Exercises 4–5. Remind students to check for reasonableness when solving each problem.

1.
| | 60 | |
| *x* | 24 |

$60 - 24 = x$; $x = 36$;
The first order had 36 fewer prints.

4.
| | 22 | |
| *x* | 12 |

$22 - 12 = x$; $x = 10$;
Rose needs to make 10 more tacos.

5.
| | *x* | |
| 5 | 16 |

$x = 5 + 16$; $x = 21$;
Aryanna plans to spend 21 days on her trip.

Problem Solving: Draw a Picture and Write an Equation **35**