

Lesson 5 Reteach

Problem-Solving Strategies

Below are some examples of problem-solving strategies that can be used to solve a problem. Selecting and applying the appropriate strategy is significant in solving problems.

- Look for a Pattern
- Make a Table
- Guess, Check, and Revise
- Work Backwards

Example Melanie is training for an upcoming marathon. In Week 1, Melanie runs 3 miles. In Week 2, she runs 3.5 miles. In Week 3, she runs 4 miles. Each week she increases the number of miles she runs by 0.5 mile. During which week will Melanie's running distance be 6 miles?

One way to solve the problem is to make a table of values, starting with the given data, and extending the values until a distance of 6 miles is reached.

Week	Miles
1	3
2	3.5
3	4
4	4.5
5	5
6	5.5
7	6

Melanie will be run a distance of 6 miles during Week 7 of her training.

Exercises

Use a strategy to solve each problem.

1. An aquarium contains 50 gallons of water. When the plug is pulled, water drains from the aquarium at a rate of 2 gallons per minute. How many gallons of water still remain in the aquarium after 8 minutes?
2. The sum of three consecutive even numbers is 84. What are the numbers?
3. After a shopping trip to the mall, Ashley saw \$6.10 in her purse. She spent \$25.80 on a pair of shoes, \$9.25 on a necklace, and \$18.85 on a belt. How much money did Ashley bring to the mall?
4. How many ways can you make change for \$1 using only dimes and nickels?