

MY Homework

Lesson 2

Problem Solving: Solve a Simpler Problem

Homework Helper



Need help? connectED.mcgraw-hill.com

Aaliyah and her 5 friends are picking up litter at the park. Each will clean a rectangular area with one side that measures 2 yards and another side that measures 6 yards. What is the total perimeter of all 6 areas they will clean?

1 Understand

What facts do you know?

Six people will each clean an area that measures 2 yards \times 6 yards.

What do you need to find?

the total perimeter of all 6 areas

2 Plan

Solve a simpler problem.

3 Solve

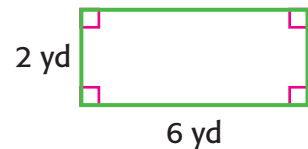
Make a drawing and find the perimeter for one area. One side measures 2 yards and another side measures 6 yards.

$$\text{Perimeter} = 2 \text{ yd} + 2 \text{ yd} + 6 \text{ yd} + 6 \text{ yd} = 16 \text{ yd}$$

Multiply 16 by the number of areas.

$$6 \text{ areas} \times 16 \text{ yards} = 96 \text{ yards}$$

So, the total perimeter of all six areas is 96 yards.



4 Check

Use addition to check the answer.

$$16 \text{ yd} + 16 \text{ yd} + 16 \text{ yd} + 16 \text{ yd} + 16 \text{ yd} + 16 \text{ yd} = 96 \text{ yards}$$

So, the answer is correct.



Problem Solving


Solve each problem by solving a simpler problem.

1. There are two identical figures with all sides of equal length. The combined perimeter of the figures is 80 centimeters. What shape are the figures? What is the length of one side?

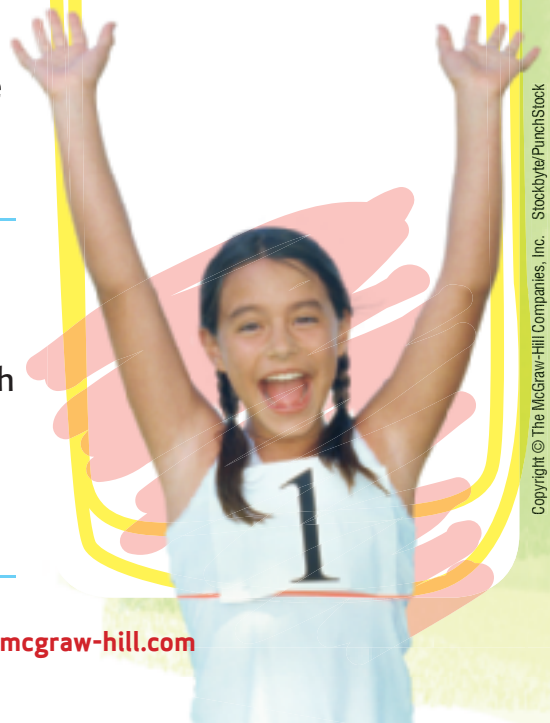
2. Miranda packed 19 glass ornaments into each box. She filled 5 boxes. What is the total number of ornaments in the boxes?

3. Carrie is making a bedskirt for her twin beds. One side of a mattress measures 39 inches, and another side measures 75 inches. How many feet of fabric will Carrie need to make skirts for both beds?

4. Dalton's dad rode his bike 1 kilometer north, 1 kilometer west, 1 kilometer south, and 2 kilometers east. How many total kilometers will Dalton's dad ride if he follows this path 9 times?

- Mathematical PRACTICE**  **Make Sense of Problems** For each mile that Jason runs, Megan runs $\frac{1}{4}$ mile farther. If Jason ran 6 miles, how far did Megan run?

My Work!



Copyright © The McGraw-Hill Companies, Inc. Stockbyte/PunchStock