

LESSON
3

Measurement and Geometry

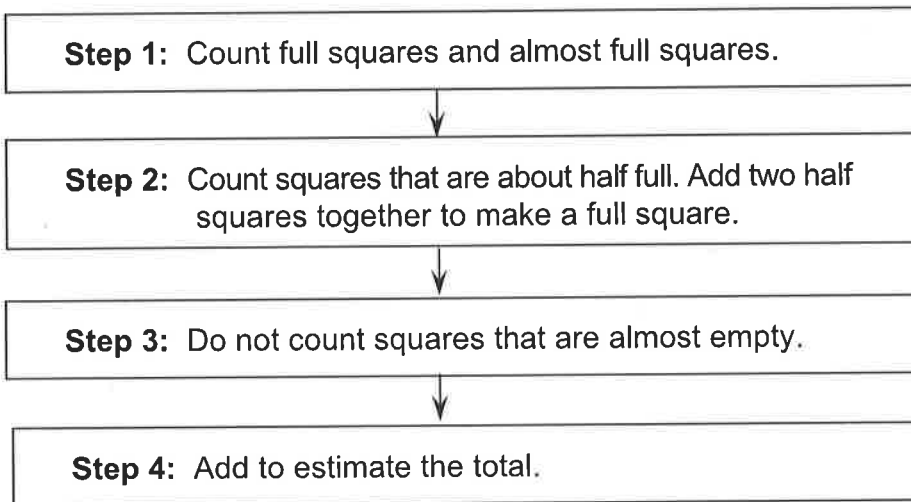
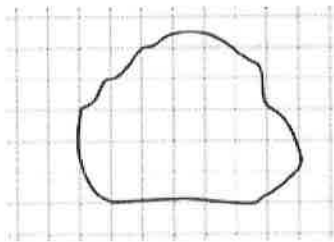
Reading Strategies: Use a Flowchart

Area is the measure of the amount of surface a figure covers.

Area is measured in square units.

This pond has a grid placed over it so that the number of square units the pond covers can be estimated.

Follow this flowchart to help you estimate the area of the pond.



Answer the following questions.

1. What do you call the amount of surface a figure covers?
2. What is the first step in estimating the area of the pond above?
3. What is your estimate for the number of full squares?
4. What is the second step in estimating the area of the pond?
5. About how many half squares did you count?
6. What is your estimate for the area of the pond?

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3

Measurement and Geometry**Problem Solving: Area of Rectangles and Parallelograms**

Use the table to answer each question.

State Information

State	Approx. Width (mi)	Approx. length (mi)	Water Area (mi ²)
Colorado	280	380	376
Kansas	210	400	462
New Mexico	343	370	234
North Dakota	211	340	1,724
Pennsylvania	160	283	1,239

- New Mexico is the 5th-largest state in the United States. What is its approximate total area?
- Kansas is the 15th-largest state in the United States. What is its approximate total area?
- What is the difference between North Dakota's land area and water area?
- What is Pennsylvania's approximate land area?

Circle the letter of the correct answer.

- What is the difference between Colorado's land area and Pennsylvania's land area?
 - 106,400 mi²
 - 61,120 mi²
 - 60,120 mi²
 - 45,280 mi²
- Rhode Island is the smallest state. Its total land area is approximately 1,200 mi². Rhode Island is approximately 40 miles long. About how wide is Rhode Island?
 - about 20 mi
 - about 40 mi
 - about 50 mi
 - about 30 mi
- About what percent of the total area of Pennsylvania is covered by land?
 - about 3%
 - about 30%
 - about 67%
 - about 97%
- The entire United States covers 3,794,085 square miles of North America. About how much of that area is not made up of the 5 states in the chart?
 - 2,537,470 mi²
 - 3,359,755 mi²
 - 3,686,525 mi²
 - 3,1310,818 mi²