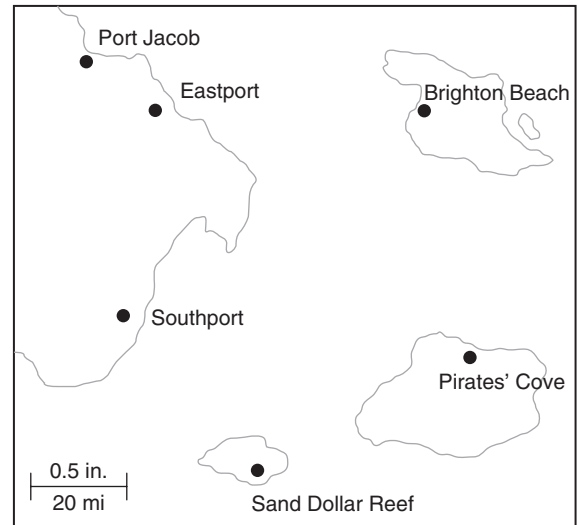## 7-7 Skills Practice

Scale Drawings and Models

MAPS Use the map shown and a customary ruler to find the actual distance between each pair of cities. Measure to the nearest sixteenth of an inch.

1. Port Jacob and Southport

2. Port Jacob and Brighton Beach

3. Brighton Beach and Pirates' Cove

4. Eastport and Sand Dollar Reef

Port Jacob

Eastport

Brighton Beach

Southport

Pirates' Cove

0.5 in.

20 mi

Sand Dollar Reef

5. SCALE MODEL Sanjay is making a 139 centimeters long scale model of the Parthenon for his World History class. The actual length of the Parthenon is 69.5 meters long.

a. What is the scale of the model?

b. How many times as long as the actual Parthenon is the model?

6. ARCHITECTURE An architect is making a scale model of an office building he wishes to construct. The model is 9 inches tall. The actual office building he plans to construct will be 75 feet tall.

a. What is the scale of the model?

b. What scale factor did the architect use to build his model?

7. WHITE HOUSE Craig is making a scale drawing of the White House on an 8.5-by-11-inch sheet of paper. The White House is 168 feet long and 152 feet wide. Choose an appropriate scale for the drawing and use that scale to determine the drawing's dimensions.

8. GEOGRAPHY Choose an appropriate scale and construct a scale drawing of each rectangular state to fit on a 4-by-6-inch index card.
a. The state of Colorado is approximately 380 miles long (east to west) and 280 miles wide (north to south).

b. The state of Wyoming is approximately 365 miles long (east to west) and 265 miles wide (north to south).

Lesson 7-7