



Geometry & Measurement Student Activity

Perimeter & Area

Perimeter and Area

Answer the following questions. Draw pictures and/or show calculations beside each question so that your calculation procedure can be examined.

1. You have a square piece of cardboard that has a perimeter of 12 centimeters. What is the area of the cardboard?
 - a. 144 square centimeters
 - b. 9 square centimeters
 - c. 16 square centimeters
 - d. 24 square centimeters
2. Samantha owns a ranch that covers 48 square kilometers. She will plant wheat on all the land except for 16 square kilometers. Samantha will plant wheat on _____ square miles of land.
 - a. 64
 - b. 32
 - c. 4
 - d. 768
3. A rectangle is 5 metres wide. The area of the rectangle is 35 square inches. What is the perimeter of the rectangle?
 - a. 24 inches
 - b. 40 inches
 - c. 30 inches
 - d. I need more information.
4. Tracy is purchasing carpet for her living room and dining room. The living room and dining room area is 15 metres by 11 metres. How many square **metres** of carpeting does she need and how will you determine this?
5. Draw a figure that has an area of 14 ($A = 14 \text{ cm}^2$). Determine the perimeter. Draw two more different figures that have areas of 14 cm^2 . Determine the perimeter of each figure. Compare all your measurements (from the three figures). Make a statement about the relationship between area and perimeter of the figures and your measurements.