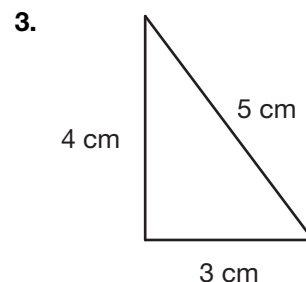
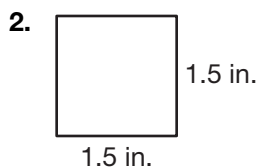
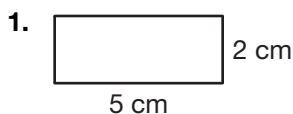


Assignment

Name _____ Date _____

Backyard Barbecue Introduction to Volume and Surface Area

Find the area of each figure.



2

Read the problem scenario below. Use the scenario to answer Questions 4 through 9.

You ask your landscaper to add a storage box in the shape of a rectangular prism to hold the barbecue supplies to your patio design.

4. How many measurements will you need to build your box?
5. What are the measurements you will need?
6. You tell your landscaper that you want the storage box to have a rectangular base with a width of 42 inches and a length of 6 feet. It will be 3 feet high. What should your units be in your calculation? Use complete sentences to explain your answer.
7. Find the volume of your box. Explain your answer by using a complete sentence.

2

8. You decide to cover the inside walls, top and floor of your box with 12 inch by 12 inch tiles to finish it. Tiles are sold 20 to a box. How many boxes will you need to purchase? Explain your work in complete sentences.

9. If a cube has a volume of 512 mm^3 , what would be the length of each edge?