



Name _____ Date _____

Surface Area

CA Standards
MG 1.1, MG 1.4

Solve each problem.

1. A cube has edges that measure 6 inches. What is the surface area of the cube?

2. Mia is gluing 1-inch tiles to the outside of a rectangular box. She plans to glue tiles to all six faces. The box is 2 inches tall, 3 inches wide, and 4 inches long. How many tiles will she need?

3. Ross and Mick are also gluing 1-inch tiles to the outside of rectangular boxes. Ross's box is 3 inches tall, 3 inches wide, and 3 inches long. Mick's box is 4 inches tall, 2 inches wide, and 2 inches long. Who will use more tiles? How many more?

4. A tube of glue will cover 500 square inches. Will one tube of glue be enough to glue tiles to six 4-inch cubes? Explain your answer.

5. The areas of three different-sized faces of a rectangular prism are 24 in.^2 , 40 in.^2 , and 15 in.^2 . What is the surface area of the rectangular prism? Tell how you know.

6. How does the surface area of a rectangular prism change when the length, width, and height are doubled?

