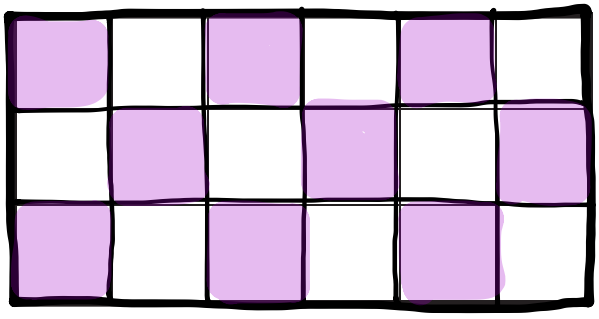
Name _____ Date _____

1. Use the rectangle below to answer Problem 1(a–d).



a. What is the area of the rectangle in square units?

3 units × 6 units = 18 sq u

The area is 18 square units.

b. What is the area of half of the rectangle in square units?

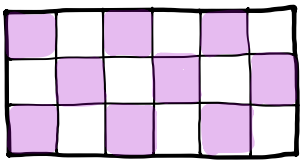
18 sq u ÷ 2 = 9 sq u

The area is 9 sq u.

c. Shade in half of the rectangle above. Be creative with your shading!

Answers will vary

d. Explain how you know you shaded in half of the rectangle.



I know I shaded in half of the rectangle because there are 9 square units shaded in and 9 square units not shaded in.

2. During math class, Arthur, Emily, and Gia draw a shape and then shade one-half of it. Analyze each student's work. Determine if each student was correct or not, and explain your thinking.

Student	Drawing	Your Analysis
Arthur		Correct. The black diamond has been cut out and moved to the other side.
Emily		It appears as though the top part of the square has not quite been shaded all the way. So it is not one-half.
Gia		Correct. The circle and the triangle have been cut out and moved to the other side.

3. Shade the grid below to show two different ways of shading half of each shape.

Answers will vary.