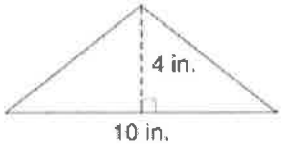
Name _____ Date _____ Class _____

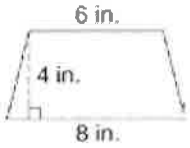
LESSON 4

Measurement and Geometry

Reading Strategies: Follow a Procedure

Triangles and trapezoids are two different types of polygons. You can follow a procedure to help you find the area of each type of polygon.





Step 1: Use the formula $A = \frac{1}{2}bh$.
↓
Step 2: Substitute the length of the base for b.
↓
Step 3: Substitute the length of the height for h.
↓
Step 4: Multiply.

Step 1: Use the formula $A = \frac{1}{2}h(b_1 + b_2)$.
↓
Step 2: Substitute the length of the height for h.
↓
Step 3: Substitute the length of the bases for b_1 and b_2 and add.
↓
Step 4: Multiply.

Answer each question.

1. What is the first step in finding the area of the triangle?

2. What are the second and third steps in finding the area of the triangle?

3. What is the area of the triangle?

4. What is the first step in finding the area of the trapezoid?

5. What are the second and third steps in finding the area of the trapezoid?

6. What is the area of the trapezoid?

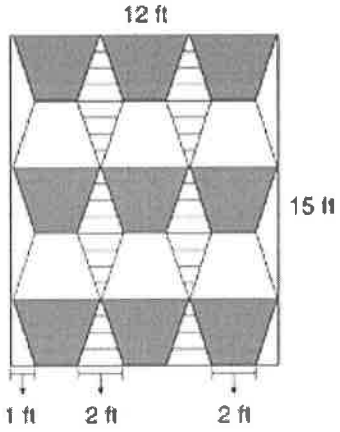
Name _____ Date _____ Class _____

LESSON 4

Measurement and Geometry

Problem Solving: Area of Triangles and Trapezoids

Use the quilt design to answer the questions.



1. What are the lengths of the bases of each trapezoid?

2. What is the height of each trapezoid?

3. What is the area of each trapezoid?

Circle the letter of the correct answer.

4. What is the length of the base of each striped triangle?

   A 1 ft

   B 2 ft

   C 3 ft

   D 4 ft

5. What is the height of each striped triangle?

   F 1 ft

   G 2 ft

   H 3 ft

   J 5 ft

6. What is the area of each striped triangle?

   A 3 ft^2

   B 1 ft^2

   C $\frac{3}{4}$ ft^2

   D $\frac{1}{4}$ ft^2

7. What is the area of the quilt?

   F 36 ft^2

   G 90 ft^2

   H 96 ft^2

   J 180 ft^2