Name_____ Date_____

Project

"Being an Architect"

Information: You are applying for an architect job. The employer requires you to take a test to ensure that you are the right person for the position. The test has four parts. Part 1 requires you to find the actual lengths and widths given scale drawing information. In part 2, you will be given shapes that you must classify/name and determine the missing angle measurements. In part 3, you will be given a diagram and required to label/name various angles and find the measure of certain angles. Part 4, has two questions about geometric figures you must answer to demonstrate your understanding of the material. (20 questions)

Part 1

The scale of a room in a blueprint is 4 in : 7 ft. A wall in the same blueprint is 32 in. Complete the table. Use the diagram for questions 1 and 2 only.

Blueprint length in	8				
Actual Length ft	7				

1. How long is the actual wall?_____

2. A window in the room has an actual width of 3.5 feet. Find the width of the window in the blueprint._____

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3. The scale in the drawing is 3 in : 6 ft. What are the length and width of the actual room? The blueprint is 7 inches by 14 inches. Find the area of the actual room.

Part 2

1.

← 45
44°   x

2.

78°
x°   27°

3.

53°
x°   37°

4.

x
93°
13°

5.

x°   46°
84

6.

60°
x°   60°

7.

8.

9.
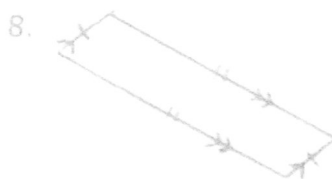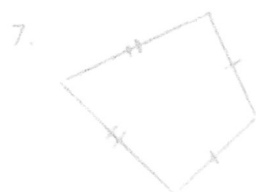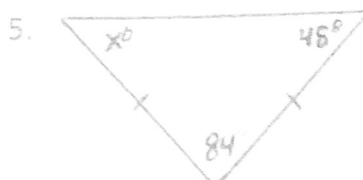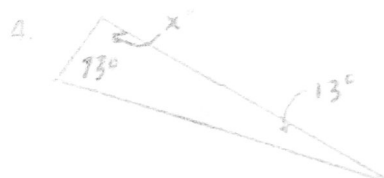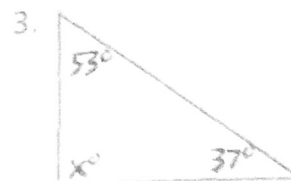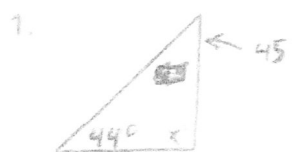
Find the value of x. Then classify the shape.

1. Value_____ Name of Shape_____

2. Value_____ Name of Shape_____

3. Value_____ Name of Shape_____

4. Value_____ Name of Shape_____

5. Value_____ Name of Shape_____

6. Value_____ Name of Shape_____

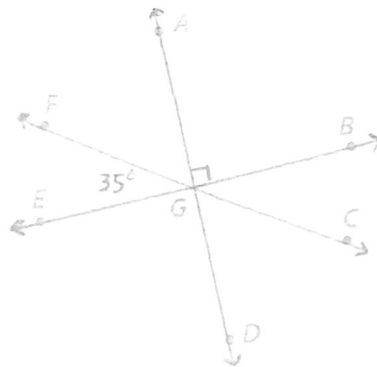Classify the shape.

7. Name of Shape_____

8. Name of Shape_____

9. Name of Shape_____

1. Name a pair of supplementary angles._____

2. Name a pair of vertical angles._____

3. Name a pair of adjacent angles._____

4. Name a pair of complementary angles._____

5. Find the measure of <CGD _____

6. Find the measure of <BGC _____

Part 4

1. How can you use geometry figures to solve real-world problems? (*Please provide a real example with your answer – you can either write it or draw it in the space provided below*)

2. Why is the, "Being an Architect", problem a good example for the lessons learned in this topic? (USE TWO OR MORE WORDS FROM THE WORD WALL IN YOUR EXPLANATION)