

Name: \_\_\_\_\_

## Floor plan example



TWO BEDROOM UNIT A

Name: \_\_\_\_\_

## General contractor scenario and guidelines

You are the general contractor for a local company that builds homes. Your rate for construction is \$100 per square foot. You have been hired to draw the plans for a home that is approximately 2,000 square feet. Design a home using the following requirements.

\_\_\_ 1. Use each of the following shapes at least once in your design. (25 points)

### Shapes

### Formula (to calculate area)

Rectangle

Parallelogram

Triangle

Circle

Trapezoid

\_\_\_ 2. Produce a key for the value of one square in relation to actual feet. (5 points)

\_\_\_ 3. Label the rooms – name each room and give its dimensions (10 points)

\_\_\_ 4. Work pages (40 points)

- Provide a picture of each room
- Tell the shape of the room
- Decide which formula to use to calculate the area
- Work the problem out

\_\_\_ 5. Landscape – design the outside appearance of the home with shrubs, trees, etc. Be sure to add color! (5 points)

\_\_\_ 6. Calculate the total cost of the home (5 points)

\_\_\_ 7. Reflection paper (10 points)

\_\_\_ **Total points earned (100)**

Name: \_\_\_\_\_

## **Reflection paper**

1. Brainstorm your successes as a contractor on this particular job.
2. Brainstorm your shortcomings as a contractor on this particular job.
3. As a general contractor, you sub-contract jobs to smaller companies that specialize in a particular field. Name some different sub-contractors who use area in their jobs.
4. If you had to choose one career that was mentioned, which one could you see yourself having? Explain why.