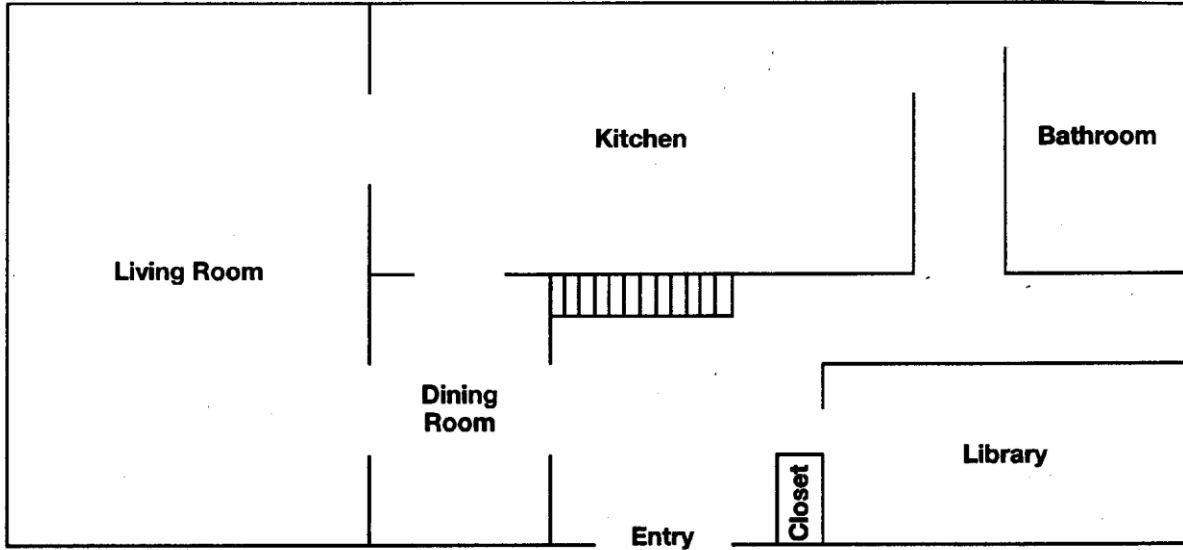


Physical Science
Determining and using a scale

Name: _____ Block: ___

The floor plan shown is of a house that is 46½ feet wide, and 21 feet deep In Real Life. Using a ruler to measure from the drawing, answer the questions below. Show your work!



1. How wide is the house in centimeters On the Drawing? _____
2. How wide is the house in feet In Real Life? _____
3. How big is one cm On the Drawing in Real Life? *Hint: convert 1 cm OTD to feet IRL using the conversion factor from #1 and #2*

$$1 \text{ cm OTD} \times \frac{\text{ft IRL}}{\text{cm OTD}} = \text{ft IRL}$$

4. What is the actual size in feet of the opening from the Living Room to the Dining Room?
5. What are the actual dimensions of the Kitchen in feet (both length and depth)?
6. How many square feet of tile will you need for the Kitchen floor?

7. What are the actual dimensions of the Living Room in feet (both length and depth)?

8. How many square feet of wood flooring would you need for the Living Room floor?

Level 1:

9. How many square yards of carpet would you need for the Living Room?

10. The Living Room is to have a decorative baseboard all around it where the floor meets the wall. How many feet of baseboard are needed? (You don't need baseboard where there are openings in the walls!)

11. How many square feet of tile will be needed to cover the Bathroom floor?

12. Assuming the walls are 8 feet high, how many square feet of fancy wood wall paneling will be needed for the Library? (Assume you need it for the back of the door as well.)