

South Carolina GED Teacher's Lesson Plans

Developed by Richelle Allen **AE Program** – Edgefield County Adult Ed

Area/Skill Math Area/Perimeter **Cognitive Skill** Application

Activity Title: House Plans

Materials Needed:

- Worksheet on finding area and perimeter (Formula is on worksheet)
- Several pages of house plans of various sizes for students to choose from
- Activity sheet to go along with house plans.

Goal/Objective To choose the correct formula and solve real life problems involving area and perimeter.

Introduction:

Tell the students that today you are going to work on a practical math skill – finding area and perimeter. Ask students if they have ever had to find the area of something (other than as a school assignment). Discuss with the students times that you might need to know the area of something. Point out that you would need to know how to find the area of a room if you were painting, laying flooring, adding insulation or even adding an addition. You would also need to know area if you were pouring concrete, laying sod, sowing grass or mulching a flowerbed.

Ask the students if they have ever had to find the perimeter of something. Point out that you would need to know how to find the perimeter if you were installing fencing, gutters or borders in the yard. You would also need to know how to find the perimeter if you were hanging wallpaper borders or installing moldings or chair railing.

Explain the difference between area and perimeter. Area is the measure of the surface whereas perimeter is the measure of the distance around the edges. Give students the portion on area on the exercise sheet and have them lightly shade the area of the figures as they perform calculations. Go over with students. Then instruct the students to trace the outline of the shape as they perform calculations on the perimeter section of the worksheet.. Discuss the two exercises as a class.

Main Activity

Instruct student to select a house plan and activity sheet. Using the house plans, the student is to answer the questions on the activity sheet.

Debriefing/ Evaluation

Allow students to share their findings with the class by filling in a chart drawn on the board. Encourage students to discuss their findings with the class.