Scenarios - To be used with manipulatives and can be set up as stations or cut apart and placed in envelopes for small group work.

A room is 12 feet long. It is 8 feet wide. Figure out how many one-foot square tiles you would need to tile the floor. You can use the graph paper to count the tiles. Or you can use the chips. Think of each chip as being the same as a one-foot square tile.

First, draw a room that is 8 feet wide and 12 feet long. The length of each grid of your graph paper should represent 1/2 foot. Then add by grouping with repeated addition to determine the number of 1 foot by 1-foot tiles that would be needed to retile the floor of this room.

First, draw a room that is 8 feet wide and 12 feet long with a 4 x 5 foot closet attached at one end on the outside of the 8x12 figure. The length of each grid of your graph paper should represent 1/4 foot. Then determine the number of 1 foot by 1-foot tiles that would be needed to retile the floor in this room, including the closet. You may use a calculator if you wish.

The perimeter of a rectangle is 9 feet. The length is 2 ½ feet long. How long is the width? Try drawing this figure.

You are planning to build 2 flower beds along the sides of your driveway. Each bed is 9 feet long and 3 feet wide. Draw this diagram using chart paper. You have decided to put cedar planks around the outside edge of each flower bed. Will you need to figure perimeter or area for that job? Explain.

Your neighbors live on a corner lot that measures 120 feet by 80 feet. They must add sidewalks along the edge of their lot next to the street. New sidewalks cost $12 per foot. How much will their new sidewalk cost? Sidewalks are 5 feet wide. They are divided into sections that are 5 feet long. How many sections will there be in a sidewalk that is 120 feet long? How much area will this new sidewalk cover?

The area of a rectangle is 48 square inches. Its perimeter is 38 inches. Find the length and width of the rectangle. Think of possible dimensions that could give you 48 sq in. Then check to see if they results in the correct perimeter.

The recreation director is in charge of getting estimates to resurface the bottom of their public swimming pool. She will need to submit the area of the pool to the city contractor. The pool has an L shape with a rectangle for frame plan. Draw the pool design and assign lengths if necessary. How should the director go about finding the necessary information to complete her assignment?

Determine the number of square yards of carpeting needed to cover the floor in an 8 x 12 foot room. How much waste would there be if you have to buy carpeting by the square yard? Write a few sentences explaining your answer and your reasoning. You may use a calculator if you wish.