

**Math by Design**  
**Windjammer Environmental Center Tasks and Subtasks**

**Pentagonal Plot**

In one corner create a pentagonal garden for plants that attracts birds, bees, and butterflies. Try a new soil mix to ensure that the plants will have essential nutrients.

**Pentagonal Plot Subtask 1: Place and size the garden in the Windjammer Center.**

Details:

The garden is oriented so that the two longest sides are against the edges of the Windjammer Center.

Each of those sides is 30 feet long.

Two 12 foot sides are perpendicular to the two longest sides.

The last side joins the endpoints of the two 12-foot sides.

**Pentagonal Plot Subtask 2: Cover the garden with the new soil mix.**

Think about:

The garden is a composite figure.

One scoop of soil covers about 130 square feet of garden.