MY Homework

Homework Helper

eHelp

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Gina's family built a deck in the shape of a hexagon. They placed posts on each outside corner. For a party, they will hang strings of decorative lights from each post to every other post. How many strings of lights are needed?

1 Understand

What facts do you know?
- The deck has six corners.
- One string of lights will be hung from each corner to every other corner.

What do you need to find?
- how many strings of lights are needed

2 Plan
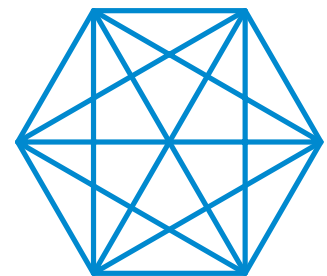
Draw a diagram to solve the problem.

3 Solve

Draw a hexagon.

Draw lines from each corner to every other corner. Each line represents a string of decorative lights.

Count the lines. There are 15 lines drawn.

So, Gina's family needs 15 strings of lights.

4 Check

Is my answer reasonable?
The diagram shows 9 lines inside the hexagon plus 6 lines connecting each side of the hexagon. Since $9 + 6 = 15$, the answer is reasonable.

Problem Solving

Solve each problem by drawing a diagram.

1. **Model Math** Martina and Charlotte are sharing a pizza. The pizza is cut into eight pieces. Martina ate a quarter of the pizza. Charlotte ate 3 pieces. How many pieces are left?

2. Five friends are having a tennis tournament. Each friend will play the other four friends once. How many matches will be played?

3. A rectangular bedroom floor has an area of 100 square feet and a length of 10 feet. What is the perimeter of the floor?

4. Alexander is riding his bicycle to school. After one mile, he is a third of the way there. How much farther does he have to ride?

5. Marjorie has 28 feet of trim to use as edging on a rectangular blanket she wants to make. What is the length and width of two blanket sizes she could make.

My Work!

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