

KEY CONCEPT OVERVIEW

In Lessons 18 through 22, students make connections between area and perimeter.

You can expect to see homework that asks your child to do the following:

- Create as many rectangles as possible with a given area or a given perimeter.
- Compare and analyze the perimeters and areas of different rectangles and draw conclusions.
- Create and analyze **line plots** based on the number of rectangles created.

SAMPLE PROBLEM (From Lesson 22)

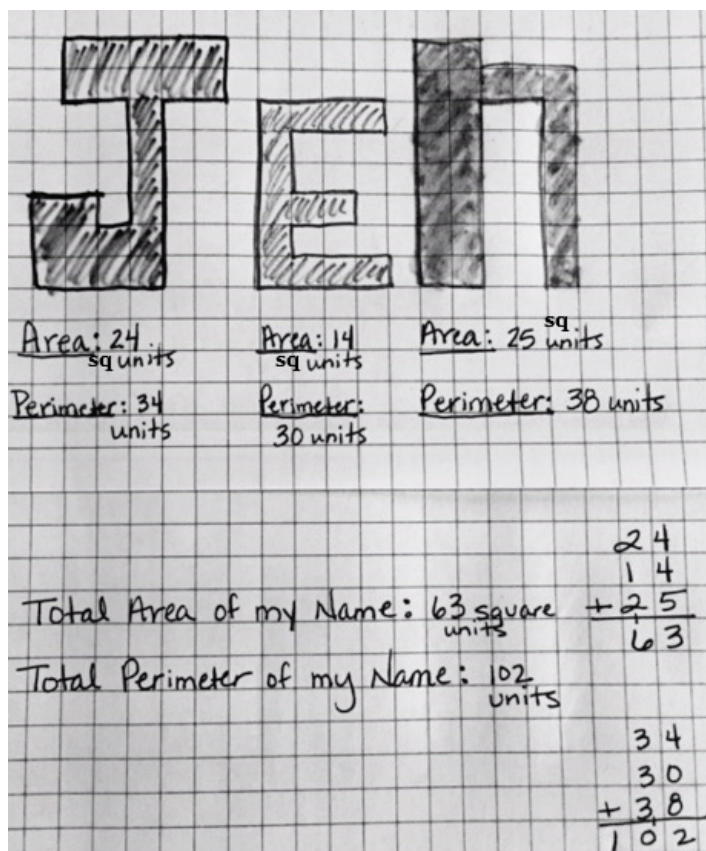
Sumi uses unit square tiles to build 3 different rectangles, each with an area of 32 square units. Does knowing the number of rectangles she built that have an area of 32 square units help her find the number of rectangles she can build that have a perimeter of 32 units? Why or why not?

No, area and perimeter are different measurements, so knowing the number of rectangles she built that have an area of 32 square units does not help Sumi find the number of rectangles she can build that have a perimeter of 32 units.

Additional sample problems with detailed answer steps are found in the *Eureka Math Homework Helpers* books. Learn more at GreatMinds.org.

HOW YOU CAN HELP AT HOME

- Ask your child’s teacher or search online for printable grid paper. Have your child use crayons or markers to construct her name on the grid paper and find the area and perimeter of each letter. (See image at right.) Then have your child find the total area and perimeter of her name. If your child desires, she can do the rest of the names in your family as well.



MODELS

Line Plot: A display of data on a horizontal number line.

