

Shape Search

Your Challenge

Look around your classroom for at least three shapes for each of the six categories below. Then draw the shape in the correct box on the **Recording Sheet**. If the shape belongs in more than one category, draw it in each of the boxes that it belongs in.

- 1.** Parallelogram
- 2.** Square
- 3.** Rectangle
- 4.** At least one pair of parallel sides
- 5.** All sides are equal
- 6.** Fits no other category



Shape Search

Check students' work. Responses should show an understanding of the attributes of two-dimensional shapes.

Parallelogram

Square

Rectangle

At Least One Pair of Parallel Sides

All Sides Are Equal

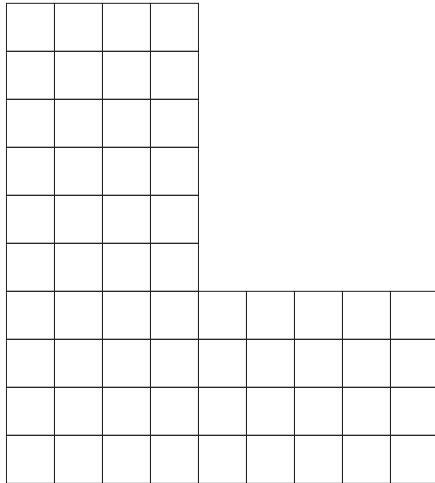
Fits No Other Category

Designing a New Home

Your Challenge

Your family is planning a rabbit pen. The pen must hold at least 4 rabbits but no more than 15 rabbits. Each rabbit will have its own space within the pen. All rabbits should get the same amount of floor space.

1. Look at the diagram of the rabbit pen below. How many rabbits could your family get? Make three plans for 3 different numbers of rabbits. In at least one of your plans, do not make all the rabbit spaces look the same. Plan your layouts on the **Recording Sheet**.

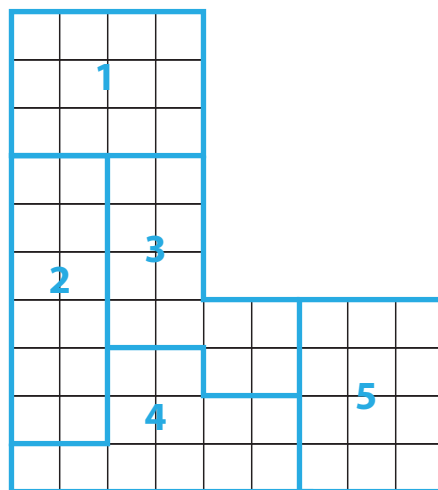
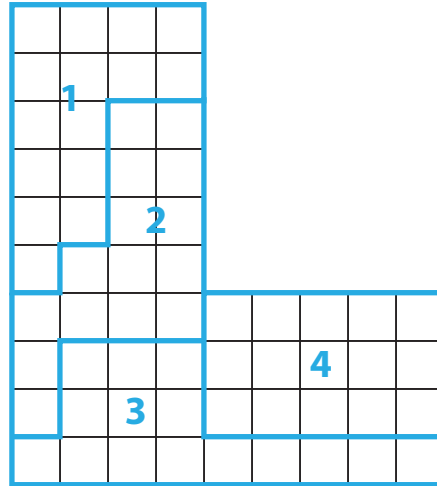
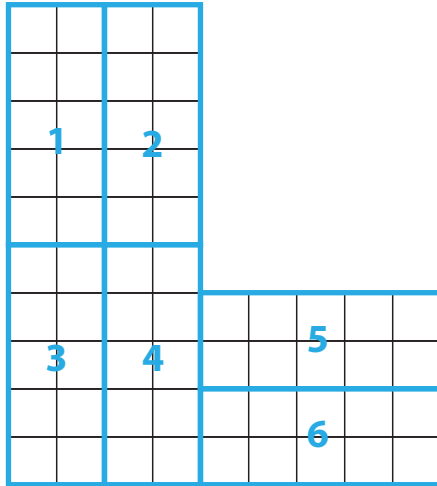


2. What fraction of the pen will each rabbit get in each of your plans? What do you notice about the size of the space each rabbit gets when you plan for more rabbits?



Designing a New Home

1. Answers will vary. Possible answers shown.



2. Answers will vary. Possible answers based on the plans in Question 1: In the first plan, there are 6 rabbits, so each rabbit gets $\frac{1}{6}$ of the pen. In the second plan, there are 4 rabbits, so each rabbit gets $\frac{1}{4}$ of the pen. In the third plan, there are 5 rabbits, so each rabbit gets $\frac{1}{5}$ of the pen. The more rabbits you have, the smaller floor space each rabbit gets in the pen.