

H.W., WK #4
Due Friday, Sept. 26, 2008
Name _____

Exploring Perimeter of Rectangles

Julie wants to build an exercise pen for her pet rabbit. She has 36 feet of fencing and 4 metal posts to build a rectangular enclosure. She wants to carefully plan her project, measuring in units of whole feet. What size pen should she build?

1. Use grid paper and draw all possible rectangles with perimeters of 36 feet. How many are there? _____
2. Fill in this table of possible dimensions for Julie's pen.

length (ft)	width (ft)	perimeter (ft)	area (ft ²)
17	1	36	17
16	2	36	32
15			

3. What is the relationship between the shapes of these 9 rectangles and their areas?

4. Which pen should Julie build for her rabbit? Explain.

EXERCISE

1

Making Inferences

Read the paragraph. Answer the questions.

In 1829, Daniel Webster started a page program in the United States Senate. The pages are young people who work for the senators. For example, pages run errands and deliver messages. Pages are chosen by the senators of their home states. They must be 16 years old, have good grades, and show leadership qualities. Pages live near the Capitol Building and attend school.



They are excused from homework when the senators work overtime. Pages get paid, but the biggest reward is the experience of working in the Senate.

1 Fill in the correct circle to show whether each statement is a fact or an inference.

Fact Inference

- | | | |
|-----------------------|-----------------------|-------------------------------------|
| <input type="radio"/> | <input type="radio"/> | Pages run errands for senators. |
| <input type="radio"/> | <input type="radio"/> | Pages are interested in government. |
| <input type="radio"/> | <input type="radio"/> | Pages go to school. |
| <input type="radio"/> | <input type="radio"/> | It is an honor to be a Senate page. |

2 Write **yes** or **no** under each heading on the chart to show if the word describes a Senate page.

Busy	Responsible	Lazy

EXERCISE
2

Making Inferences

Read the paragraph. Answer the questions.

Have you ever heard of a walking school bus? Students in some parts of the United States travel by such buses every day. The “driver” of these buses is often a parent who leads a group to and from school—on foot. If the group is large, there is usually another adult who acts as the “conductor” and walks at the rear of the group to make sure that everyone stays together. Students are picked up and dropped off at their homes. Walking buses help students get fresh air, and they also help reduce pollution and traffic congestion.



1 Fill in the correct circle to show whether each statement is a fact or an inference.

Fact Inference

- Walking school buses provide good exercise.
- Two adults usually accompany a large group.
- Slow walkers could cause problems for a group.
- Walking buses aren't much fun in bad weather.

2 Write **yes** or **no** under each heading on the chart to show if the word describes a walking school bus.

Healthy	Unsafe	Expensive