Unit 4 Assessment

① Measure the line segments to the nearest $\frac{1}{2}$ inch. Write the unit.
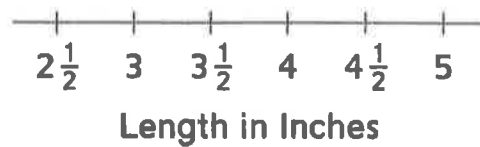
_____

about: _____
                (unit)

_____

about: _____
                (unit)

② Use the data in the tally chart to make a line plot.
Use Xs to show the data on the line plot.

Lengths of Earthworms to the Nearest $\frac{1}{2}$ Inch	Number of Earthworms
$2\frac{1}{2}$	//
3	////
$3\frac{1}{2}$	////
4	//////
$4\frac{1}{2}$	///
5	/

Lengths of Earthworms to the Nearest $\frac{1}{2}$ Inch

$2\frac{1}{2}$ 3 $3\frac{1}{2}$ 4 $4\frac{1}{2}$ 5

Length in Inches
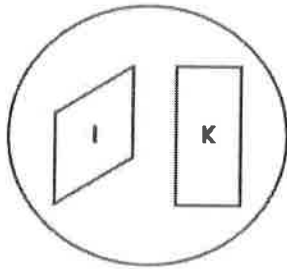
Unit 4 Assessment (continued)

③ Xavier is playing *What's My Polygon Rule?*.
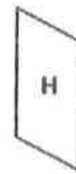He places his polygons this way:

Fits the Rule   **Does Not Fit the Rule**

a. Draw a different shape that fits the rule.

b. What could Xavier's rule be? Explain how you know.

_____

_____

_____

④ Look at these shapes.

a. How are they alike? _____

_____

b. How are they different? _____

_____

Unit 4 Assessment (continued)

⑤ a. Trace the boundary of this shape.
Then find the perimeter.
Remember to write the units.

2 yards 2 yards 2 yards 2 yards 2 yards

Perimeter: _____
(unit)

b. Explain how you figured out the perimeter.

_____

_____

_____

_____

c. Which name(s) could be used to name the shape in 5a?
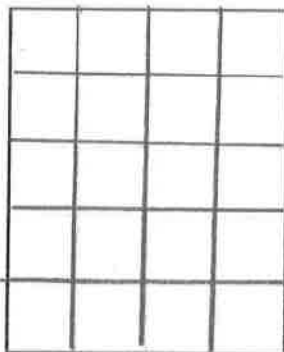Mark the box next to all that apply.

☐ hexagon   ☐ polygon

☐ pentagon   ☐ quadrilateral

⑥ Find the perimeter and the area of this rectangle.
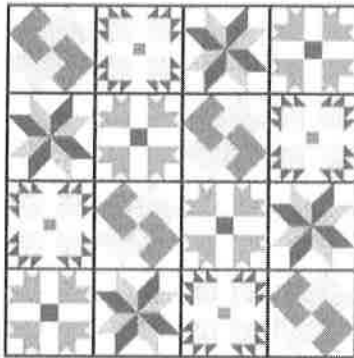
Key: ☐ = 1 square centimeter

a. Perimeter = _____ centimeters

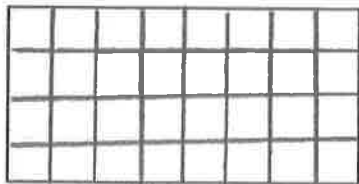**b.** Area = _____ square centimeters

Unit 4 Assessment (continued)

⑦ The sewing club made a quilt from 1-foot squares. Molly says the *perimeter* of the quilt is 16 feet and the *area* is 16 square feet.

Do you agree with Molly? Explain.

_____

_____

_____

_____

⑧ Find the area of this rectangle.

☐ = 1 square meter
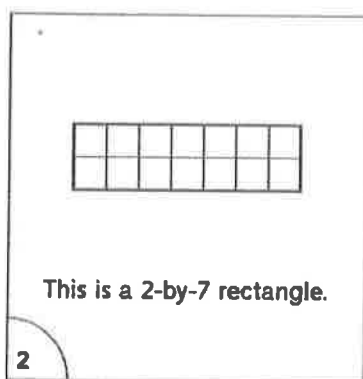

This is a _____-by-_____ rectangle.

Area = _____ square meters

Number sentence: _____ × _____ = _____

Unit 4 Assessment (continued)

⑨ You draw this card in *The Area and Perimeter Game:*
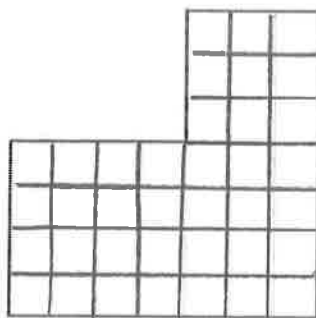
This is a 2-by-7 rectangle.

2

Find the area and the perimeter.

Area: _____ square units

Perimeter: _____ units

⑩ **a.** Partition this rectilinear shape into 2 rectangles.

b. Find the area of each rectangle.

Area of one rectangle: _____ square units

Area of other rectangle: _____ square units

c. Add the areas of your rectangles to find the area of the whole shape.

Area of whole shape: _____ square units

Unit 4 Challenge

① Mimi measured this line segment in inches
and says it is about 5 inches long.
Kendall measured the line segment in $\frac{1}{2}$ inches
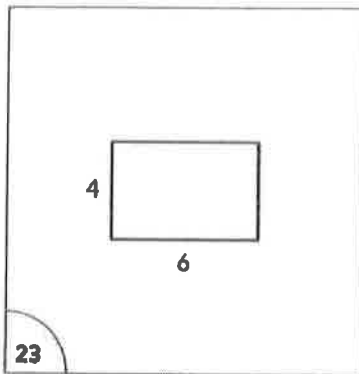and says it is about 10 $\frac{1}{2}$-inches long.

_____

Do you agree with Mimi and Kendall? Explain your answer.

_____

_____

_____

_____

② What is the smallest number of sides a polygon can have? _____
Draw an example of a polygon with this many sides.

Why are there no polygons with fewer sides?

_____

_____

_____

_____

Unit 4 Challenge (continued)

③ Your partner draws this card and a "Partner's Choice" card in *The Area and Perimeter Game:*

```
4 [      6      ]
23
```

Would you have your partner record the area or the perimeter? Explain.

_____

_____

_____

_____