Name: _____   Date: _____

Study Guide   Unit 4

Find the perimeter of each shape. Show your thinking with number sentences.

①
3 m
3 m   3 m
3 m   3 m
3 m
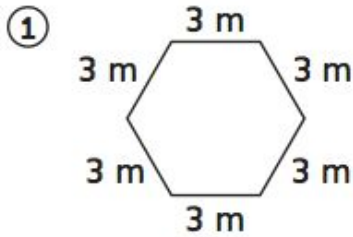
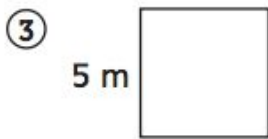Perimeter: _____ meters (m)

Number sentence: _____

②
6 ft
4 ft   4 ft
4 ft
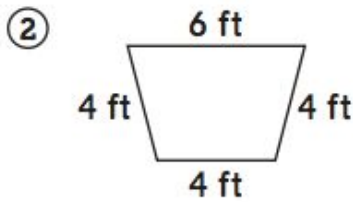
Perimeter: _____ feet (ft)

Number sentence: _____

Find the perimeters of the square and the rectangle below.

③
5 m

Number sentence: _____

Perimeter: _____ meters (m)

④
5 cm
12 cm

Number sentence: _____

Perimeter: _____ centimeters (cm)

Use Ruler A to measure each line segment to the nearest $\frac{1}{2}$ inch (in.).

Use Ruler B to measure each line segment to the nearest centimeter (cm).

Ruler A   **Ruler B**
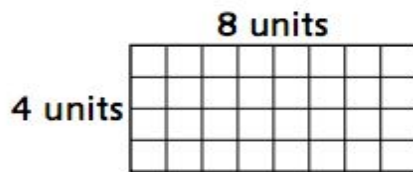
3 ————————————————————   about _____ in. | about _____ cm

Explain how you used Ruler A to measure to the nearest $\frac{1}{2}$ inch in Problem 3.

_____

_____

_____

Fill in the blanks.

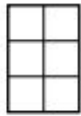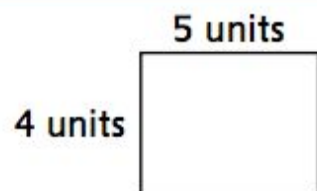**1**

8 units

4 units

This is a ____-by-____ rectangle.

Area = _____ square units

Number sentence:

____ × ____ = _____

3

This is a ____-by-____ rectangle.

Area = ____ square units

Number sentence:

____ × ____ = ____

5

5 units

4 units

This is a ____-by-____ rectangle.

Area = _____ square units

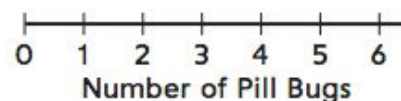Number sentence:

____ × ____ = _____

Children in the Science Club collected pill bugs. The tally chart shows how many they collected. Use the data from the tally chart to complete the line plot.

Number of Pill Bugs	Number of Children
0	
1	
2	///
3	////
4	
5	//
6	//

Number
of
Children

```
├──┼──┼──┼──┼──┼──┤
0   1   2   3   4   5   6
    Number of Pill Bugs
```

Use the information in the line plot to answer the questions.

① What is the greatest (maximum) number of pill bugs found? _____

② What is the least (minimum) number of pill bugs found? _____

③ How many pill bugs were collected all together? _____
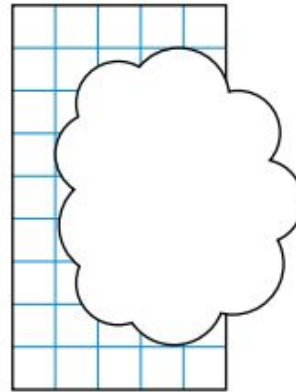
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① Cross out the shapes that are not polygons.

How do you know which shapes are not polygons?

_____

_____

A cloud is partly covering this rectangle.
Find the area of the whole rectangle.

Area = _____ square centimeters

Tell a partner how you found the area.
Then listen to how your partner found
the area. Be ready to share your
partner's ideas.

Key: ☐ = square centimeter

① Name the two special quadrilaterals below.

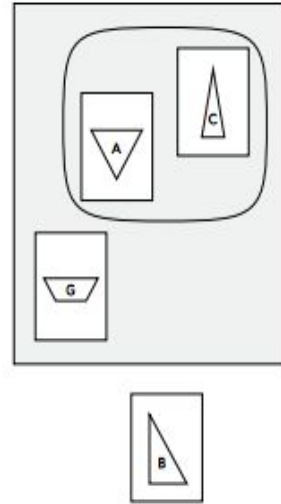_____   _____

How are these two shapes alike? _____

_____

How are they different? _____

_____

Coby places his shapes in the following way:

Jayla thinks Shape B fits the rule, and Coby adds it to the circle. Jayla says, "I think the rule is polygons with 3 sides."

Coby confirms that Jayla correctly guessed the rule.

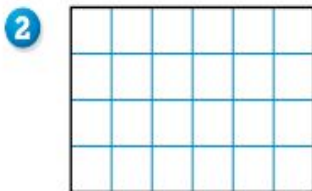For Problems 1–3, find the perimeter and the area of the rectangle.
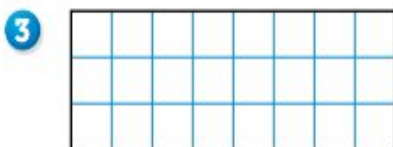
1

Key: ☐ = 1 square foot

Perimeter: _____ feet

Area: _____ square feet

2

Key: ☐ = 1 square meter

Perimeter: _____ meters

Area: _____ square meters

3

Key: ☐ = 1 square mile

Perimeter: _____ miles

Area: _____ square miles