Name _____   Date _____ Time _____

Everyday Math, Grade 5
Chapter 9 Review

Part A.

Use the grid for questions 1-4.

1a. Plot and label the following points.

A: (1,2)   B: (4,2)   C: (1,5)   D: (4,5)

1b. Draw line segments to connect to points
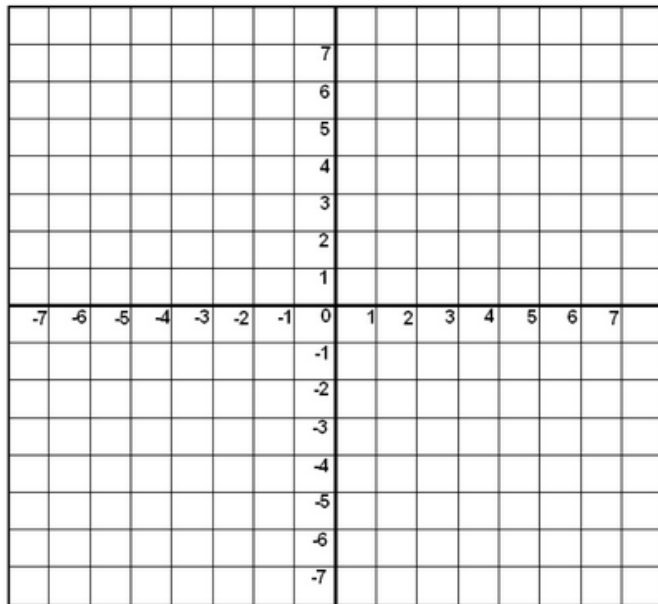   as follows:
            A to B, B to D, D to C and C to A

1c. Describe the figure you have drawn.

_____

_____

_____

_____

2. Plot points on the grid to make a reflection of

the figure. Begin with the reflection of

point A at (1, -2).

3. Record the points you used below.

Point	Original Figure	Reflected Figure
A	(1,2)	(_____, _____)
B	(4,2)	(_____, _____)
C	(1,5)	(_____, _____)
D	(4,5)	(_____, _____)

4. What is the rule for changing the original figure to get the reflected figure?

_____

_____

5. Sarah wants to build a wall around her swimming pool. The swimming pool is 13 feet by 4 feet.

a. In order to build a wall, does Sarah need to find the area or the perimeter of the swimming pool?

_____

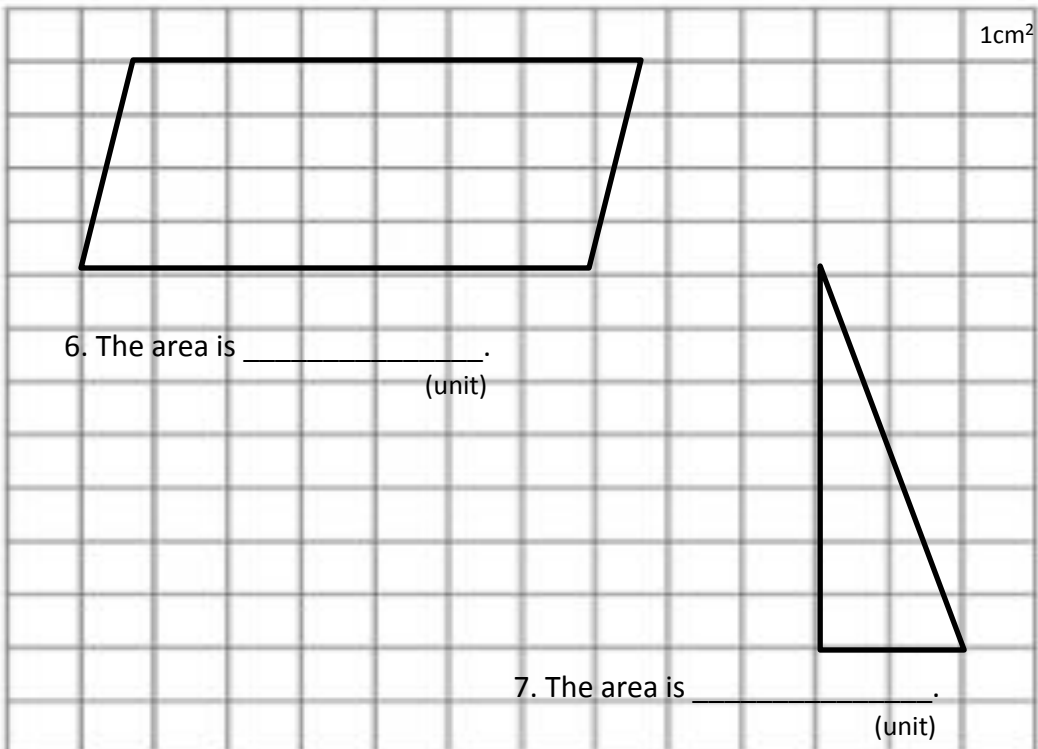b. What is the number model that Sarah would use to find the total amount of wood she needs?

_____

c. What amount of wood does she need? _____
                                                (unit)

4 ft.

13 ft.
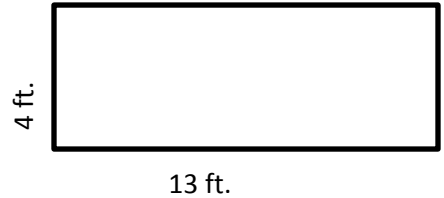
Find the area of the figures below. Use the formulas to help you.

Area of a rectangle = length of base * height: $A = b * h$
Area of parallelogram = length of base * height: $A = b * h$
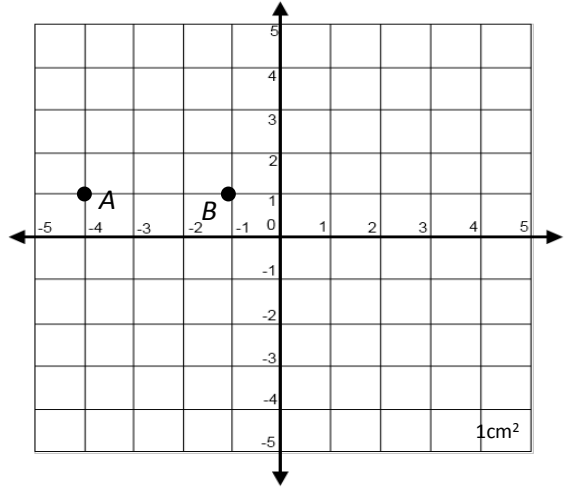Area of triangle = ½ * length of base * height: $A = ½ * b *h$

1cm²

6. The area is _____.
                (unit)

7. The area is _____.
                    (unit)

8. Label the base and height on the figures in problems 6 and 7.

9. What is the area of a figure? _____

_____

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10. What ordered number pair names Point A in the coordinate grid? _____

11. Plot and label Point C in the grid so that triangle ABC has an area of 6cm². What ordered pair names Point C? _____

1cm²

The prism is made up of centimeter cubes.

12. What is the area of the base of the prism? _____
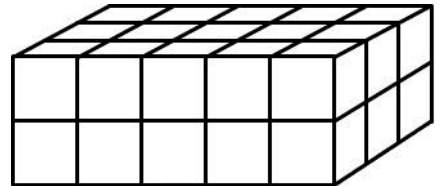
13. What is the height of the prism? _____

14. What is the volume of the prism? _____

15. If you kept the area of the base the same and changed the height so that the volume doubled, what would the new volume be? _____
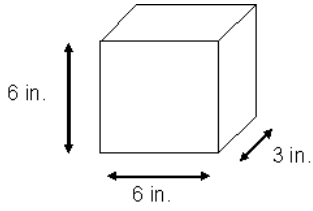
(unit)

16. What would the new height be? _____

(unit)

Part B.
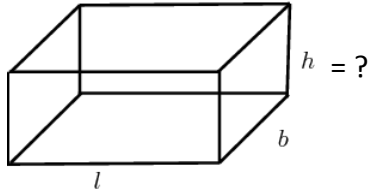
Find the volume of the prisms below.

6 in.

6 in.

3 in.

h = ?

b

l

Area of base = 48 cm²

1. _____
   (units)

3. The rectangular prism has a volume of 192cm². What is the height?

_____
(unit)

3. How can you find the volume of any prism? _____