

Name: _____

Chapter 9 PBL

In this chapter, we will be taking a close look at perimeter, area, and volume.

Your burning Question:
How many can fit into our classroom?

1. Select a square/cube object that represents something about you. Example: Starburst, iPhone, book, board game, etc. (this could be the same object you did for PBL CH. 8)

Object: _____

*Your job is to determine how many of your object can fit into the dimensions of our classroom!

2. Classroom Dimensions:

- a. Length/Base: _____
- b. Width: _____
- c. Height: _____

3. Object Dimensions:

- a. Length/Base: _____
- b. Width: _____
- c. Height: _____

4. Area:

- a. Formula: _____
- b. Area of our classroom: _____
- c. How many of your object can fit in the area of our classroom?

5. Volume:

- a. Formula: _____
- b. Volume of our classroom: _____
- c. How many of your object can fit in the volume of our classroom?

Name: _____

***How many of your objects can fit:**

- i. Along the length of our classroom? _____
- ii. Along the width of our classroom? _____
- iii. Along the height of our classroom? _____
- iv. How many, total, can fit in your room? _____

6. Total volume of the classroom *divided* by the total volume of your object is: _____

***What do you notice about the answer you calculated for #5 and #6?**

_____.

7. **In a Google Presentation, include:**

- a. Numbers 1-6 stated from above.
- b. Write/show work as to HOW you figured out how many can fit into our classroom.
- c. Use pictures/bullets/words to clearly relay your information.

8. **Attach ALL math work to this sheet when you turn in!**