

Math 7, Unit 5:

Geometry and measurement

Our Learning Goals:

We will...

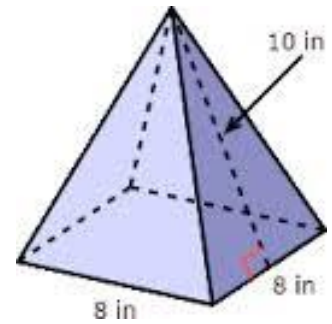
- ✓ find the circumference and area of circles.
- ✓ determine the area of composite figures (multiple shapes in one).
- ✓ calculate lateral and total surface area of prisms & pyramids.
- ✓ calculate volume of prisms & pyramids.

Why do we study this?

- ❖ Large objects that are difficult to measure directly can be measured indirectly using proportions and the properties of similar figures. For example, the height of a flagpole can be measured by comparing its shadow length to the shadow length of a person standing next to it.
- ❖ How do we know how much paint is needed to cover the walls of a room? How much paper is needed to wrap a gift? Using lateral surface area will enable us to find these answers.

How we will show what we have learned...

| Formative Assessments | Summative Assessments |
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| Ongoing formative assessments during lesson and homework activities will help in monitoring learning and providing feedback for students. | Summative assessments to measure learning at the end of concepts may include the following: <ul style="list-style-type: none">• Area of Two-Dimensional Figures Test• Lateral & Total Surface Area Test• Unit 4 Exam (District-wide) |



Sample Problem:

Lisa created a model of the Great Pyramid of Giza for her history class project. The model is in the shape of a square pyramid. What is the volume of the pyramid if the length and width of the base of the pyramid are 8 inches and 8 inches respectively, while the height of the pyramid is 10 inches?

Additional Support:

- Check the teacher web page for notes, activities, and assignments.
- Search the topic on the web. We recommend using Khan Academy. www.emsisd.com/khan
- Attend tutorials.