

# 8TH GRADE MATH

## Algebra and Pre-algebra classes in action:

This month of February, the whole 8th grade class finished a big unit on Geometry.

The GRADE LEVEL STANDARDS they have accomplished are as follows:

Geometry 3: Using two dimensional nets to create three-dimensional objects (prisms)

Geometry 6: Determine the volume of triangular prism and cylinders.

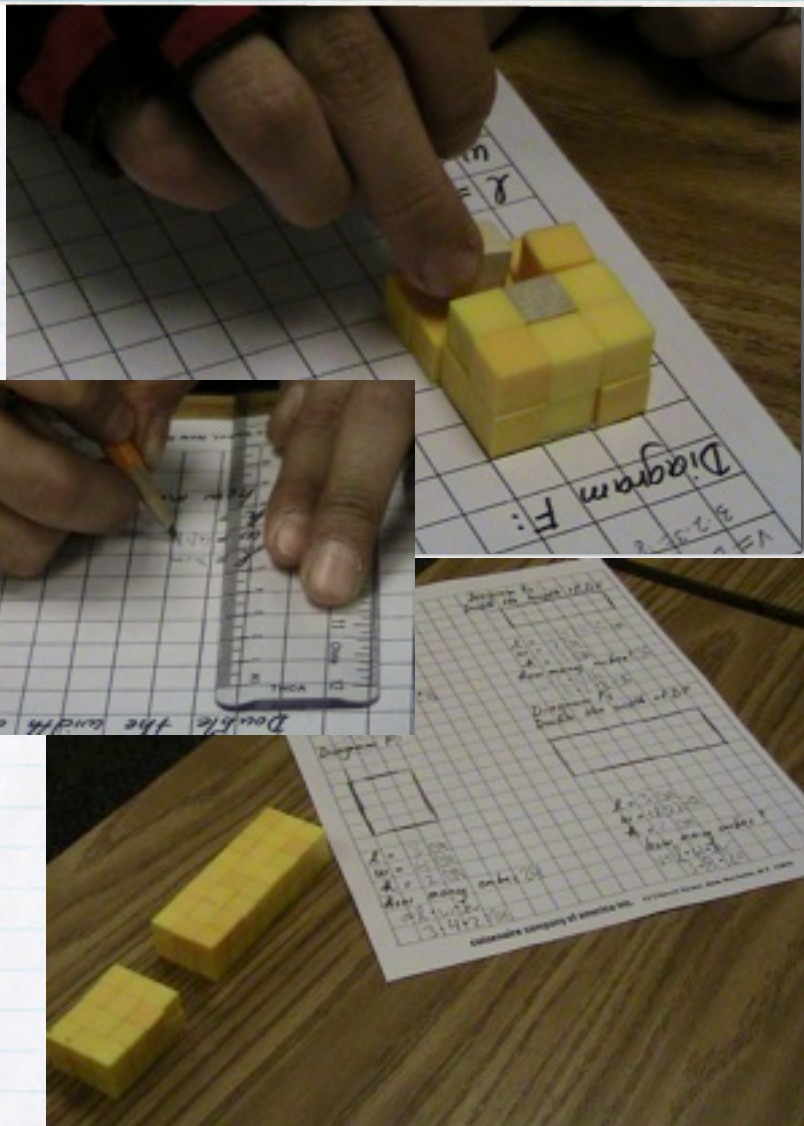
For this standard, the students perform the activity, "Popcorn Cylinders" to explore how to solve volume of cylinders and which dimension (radius or height) will have a great effect on volume. They learned their formulas and how to substitute the dimensions of their prisms to the formulas to obtain volume and surface areas.

Geometry 7: Determine the surface area of triangular prism and cylinders. (see pictures)

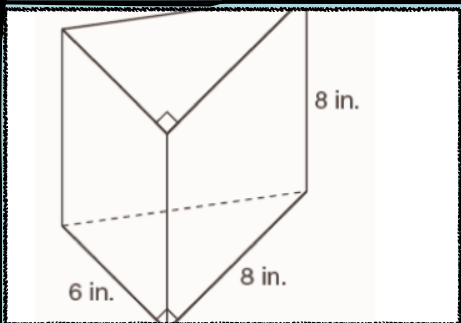
### WHAT'S NEXT:

The next Alaska standards they will work on will be on Probability. They will explore experimental and theoretical probability in the activity, "WHAT ARE MY CHANCES?" They will also work on probability of independent events.

SBA tests are coming up in April and as a preparation for these state tests, the students are working on tackling questions that are standards based as well as learning test taking skills.



This activity was to explore how a change in length of a rectangular prism affects the volume of the prism



This is an example of a triangular prism that the students work with. They learned to determine the volume and surface area of this prism as part of the 8th grade standards.

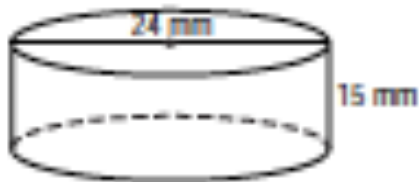


This is an activity about circles. The students drew to a scale a blanket use in blanket toss. They determine the area and circumference of their scale drawing.

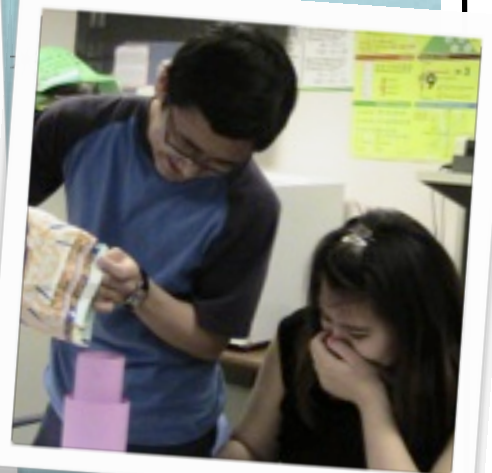
## POPCORN CYLINDERS, ANYONE

The students completed an activity shown to record their findings about their two cylinders. They measured the radius and height of the two cylinders and made predictions on which cylinder will hold more popcorn.

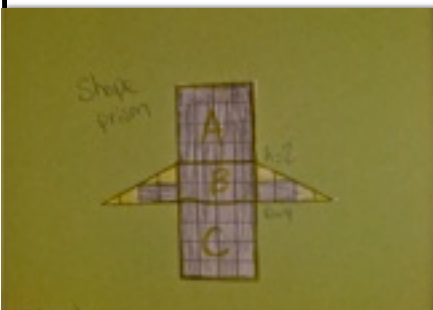
Formula:  $V = \pi r^2 h$



LEARNING IS FUN!



## PRISMS GALOP!



This activity was done to determine surface area of triangular prism using its net.

