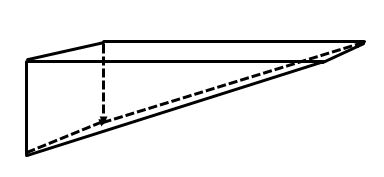
EE.2c

1. Evaluate expressions at specific values of their variables.
2. Perform arithmetic operations
   1. Involving whole number exponents
   2. Order of Operations

*For example, use the formulas V=sᴲ and A=6sᴲ to find the volume and surface area of a cube with sides of length s=1/2 (change that to align with the reference sheet, common variable)*

Sunshine Pool Company

The Sunshine Pool Company is looking for a designer to develop a geometric pool in the shape of a triangular prism. The pool shape is a rectangle with the length 4 times as long as the width. The deepest end is 10 feet and the opposite end has no depth, which creates a triangular prism.



The design will include an Aztec style tile around the inside top edge of the pool, including the edge with no depth. The tile is a 3x3 inch square. How many tiles will be needed for the pool?

*Look for people who have done in a variety of ways: both dimensions to share (feet, inches), algebraic formula (10s/3= , when s = inches; 10s\*4 = , when s = feet).*

*Share, justify, build a pattern.*

The project manager has designated the width of the pool to be 8 ft. The floor length is 34 ft. The inside of the pool will be coated with blue acrylic pool paint. How much paint would it require to paint the walls and bottom of the pool in square feet?

What is the volume of water that this pool could hold?