Lesson Plan

Grade 9 Academic Math **Lesson: 6**

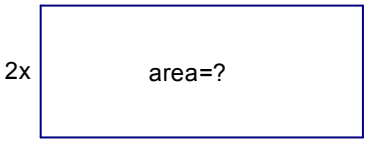
Unit: Powers and Polynomials **Topic: Representing Powers**

- ***homework check:*** **NPM 9 p. 72 # 1 – 9**

- ***note:*** **Representing Powers**

We can use one, two or three dimensional models to represent powers of 1, 2, or 3 respectively. A model in one dimension would represent the length of a line. A model in two dimensions would represent the area of a rectangle, and a model in three dimensions would represent the volume of a prism. For example, write the expression that represents the following:

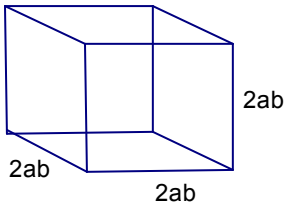
a)



$A = 8(2x)$

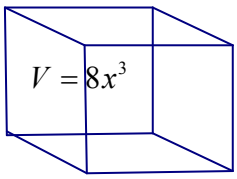
$= 16x$

b) volume = ?



$V = (2ab)^3$

c) side length = ?



$V = 8x^3$

$side\ length = \sqrt[3]{8x^3}$

- ***homework assignment:*** **NPM 9 p. 80 # 1 – 9**