

1.2 More Exponents ❄️

(chapter 3.1 in text)

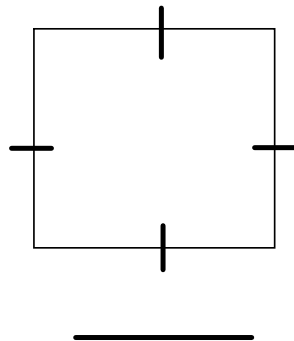
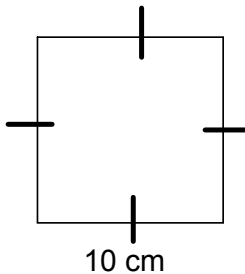
Learning Goal: you will relate your knowledge of powers to area and volume expressions

More Exponents!

We can use exponents to help describe algebraic relationships.

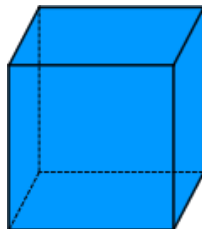
Example: Length, which is one dimensional, can be represented by x

Draw a diagram of a square with side lengths of 10 cm that has had all of its sides increased by the same number



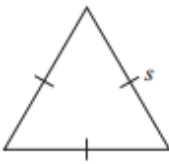
Ex. How could we represent the area of a square with side length x ? Area is two dimensional.

Ex. How can we represent the volume of a cube with side lengths x ? A cube is three dimensional.

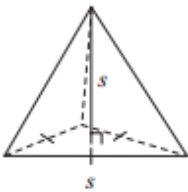


Which of the following has a volume that can be represented by s^3 ?

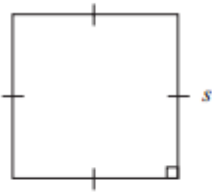
a



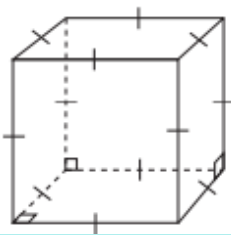
b




c



d



This question is an example of an EQAO question, please visit www.eqao.com to see past tests.

Alysia has selected the letter E to design the logo for her school team, the Eagles. The design will be used to make different-sized crests for clothing such as jackets, sweaters, and baseball caps. The height of the crest is twice the width. 

- a) Find an expression for the area of the crest in terms of the width.
- b) Determine the area of a crest with a width of 8 cm.
- c) Determine the height of a crest with an area of 72 cm^2 .

Homework, page 108 #6, 7, 8, 10
(pg 17, #1-11)