**Unit 7 Volume**

Video: <https://www.youtube.com/watch?v=Z_D9kWDgdCA>

**7.4 Solving Problems Involving Prisms and Cylinders**

Taylor is make a display of Toblerone Chocolate Bars in his candy shop. He will stack 64 packages to form a shape that is a triangular prism, using eight packages in the bottom layer. What is the volume of the display?

5cm

A cylinder with a radius of 0.6m and a height of 15m needs to be replaced with a cylinder of equal volume. However...the new cylinder has a radius of 0.5m. How high must the new cylinder be?

Steps to solving problems with Volume

1. Determine what \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to use.

 *V*= *Π* × *r2* × *h* (cylinder)

 *V* = *l* × *w* × *h (*rectangular prism)

 *V* = ( b × h ) ÷ 2 × *l* (triangular prism)

 *V* = s3 (cube)

2. Decide if you will need to…..

3. Check to make sure you do not need to…..

5.6cm

20cm

