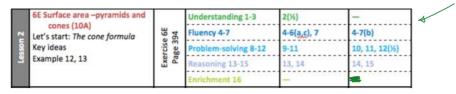
Surface Area (Pyramids and Cones)

Thursday, 15 March 2018 3:48 PM

By the end of teaching you are expected to complete the following questions:



RECAP:

We have so far looked at finding the surface areas of the following shapes:

- Prisms
 - Trapezoidal
 - Triangular

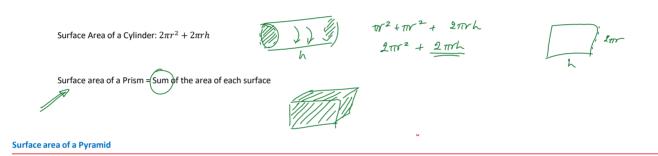
We have found that there are certain shapes which are more commonly used: • Cylinders /

There are many, many more shapes which we can find the surface area of.

Today we are going to look at: Pyramids

Cones

Important Formulae:

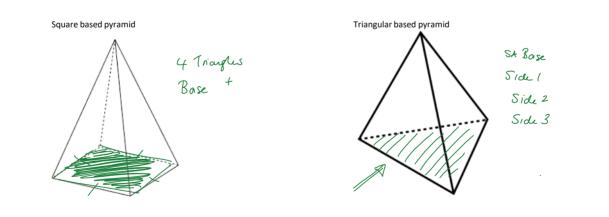


There are lots of different pyramids. We tend to deal with two in Mathematics:

Square based

Triangular based

7



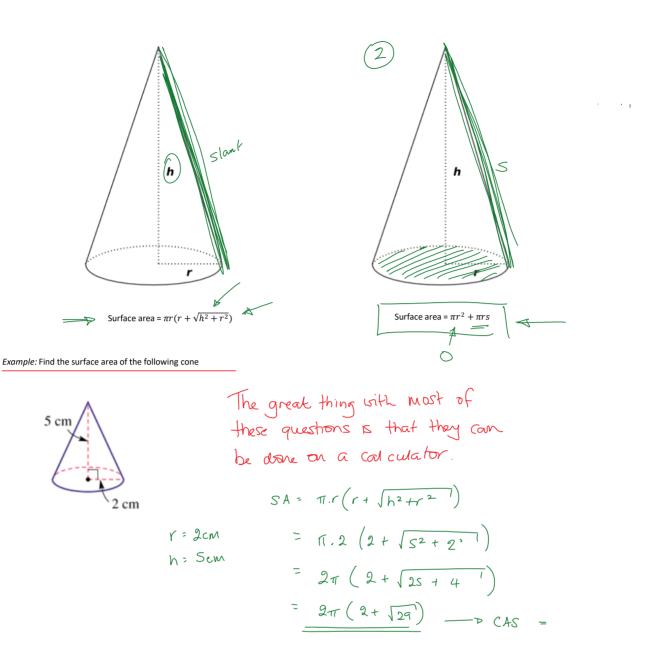
In both cases, you find the area of the base and then the area of each of the sides. You need to be careful as they can try and trick you! They can give you the **slant height** or the **side length**. This makes all the difference!

Finding the surface area of a cone

I always think of ice-cream when I see the word cone!

But ... this is great as there is a formula (or two) we can use to find the area of a cone:

This cone has the vertical height given



Composite solids:

Composite solids are shapes which are made up of one (or more) different shapes. These shapes will generally be ones which can have their individual surface areas worked out and then added together.

Example: Find the surface area of the following composite shape

