**Notes - Volume of Cylinder**

A cylinder is a 3-dimensional object with a net made of 2 circles and a curved rectangle.

In order to calculate the volume a cylinder, you will need to:

* Calculate the area of its base

(the base is a circle so, A = πr2)

* Multiply the base area (BA) by the height of the prism.

The formula for volume of a cylinder is:

**V =** πr2 **x h**

**V = area of circle x height of prism**

 OR

*Volume is always expressed in* ***cubic units*** *because it is 3-dimensional. Ex. 10 cm3*

Example: Find the volume of this cylinder.

 Show your work:



 Formula: V = BA x h

 V = πr2 x h

 V = 3.14 x 52 x 10

 V = 3.14 x 25 x 10

V = 785 cm3

Practice: Find the volume of this cylinder.

 Show your work:



Formula: