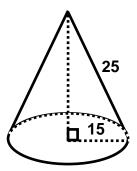
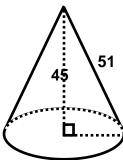
TOPIC 14-3: SURFACE AREA & VOLUME OF CONES
The figure below is a net for a right cone:
You can find the formulas for Area and Volume of cones on your STAAR Mathematics Chart.
The Lateral Area of a cone measures the area of thesurface.
The Total Area is the sum of the Lateral Area and the area of the
The Volume measures the amount of space enclosed in the of a 3-dimensional object.
Since the base of a cone is a, B =

EXAMPLE 1: For the cone below, find the EXACT Lateral Area, Total Area, and Volume.(List Parts first!)



Lateral Area :		

EXAMPLE 2: For the cone below, find the **EXACT** Lateral Area, Total Area, and Volume.



Lateral Area = _____

Total Area = _____

Volume = _____

EXAMPLE 3:	If the volume of a cone is 12π ft ³ and the radius is
	3 ft. Find the height, slant height, Lateral
	Area, and Total Area, rounding to the nearest tenth
	as necessary.

Height =
Slant Height =
Lateral Area =
Total Area =

EXAMPLE 4: Cone A has a radius of 9 and a height of 12. Cone B has a radius of 12 and a height of 9. Fill in the blanks below.

Cone _____ has a greater Volume

Cone ____ has a greater Lateral Area