

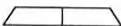
Right Truncated Cone

Now it's time to lay out the second piece of the nose. This section is a right truncated cone; a cone with a section missing. The first thing we must do, therefore, is recreate the missing section.

Pictured below is the nose of "Little Boy."



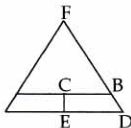
For clarity we remove the section previously developed.



We now label the points B, C, D, and E.



We recreate "the missing cone" by extending the edge BD and its mirror side. These extensions meet at point F.



ED is the base radius, FD is the slant height. ED is 11.25 mm long, FD is 20.75 mm long. Again, using the formula for computing the pattern:

$$\frac{R}{S} \times 360^\circ$$

- we plug in the values -

$$\frac{11.25}{20.75} \times 360^\circ$$

- to arrive at -

$$\frac{4050^\circ}{20.75}$$

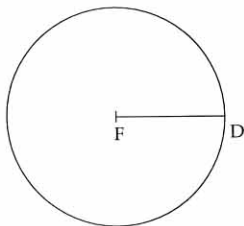
- which equals -

$$195.180^\circ$$

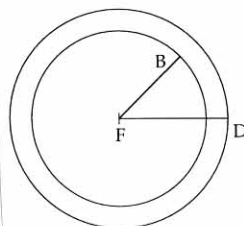
- rounded to a more practical number -

$$195^\circ$$

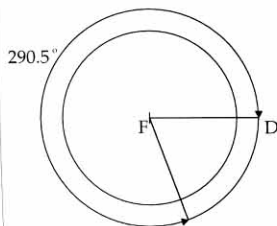
Returning to the development, describe a circle with the radius FD.



Describe another circle within the first with the radius FB. Both circles share the same center, F.



Set off the angle of 195° with a protractor.



This development is complete.

