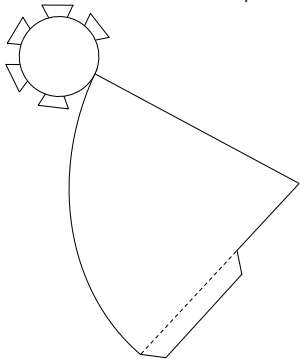


Investigation/Reflection The Surface Area of a Cone

Name _____

1. Your teacher will provide you with the net of a cone. Use this net to calculate the surface area of the cone. Show your measurements on the sketch provided.



2. Cut out the net and assemble the cone.

What is the perpendicular height of the cone?

How did you determine this?



How is the perpendicular height related to the measurements of the net of the cone?

3. Use the paper provided to create the net for a cone that has a diameter of 10 cm and a perpendicular height of 10 cm.

Explain your steps and calculations (a diagram may help)

4. Calculate the surface area of your cone. Clearly explain your steps/calculations.

5. Cut out and assemble the cone but do not attach/close the circular base. Write your name on the cone and hand it in along with this worksheet.