

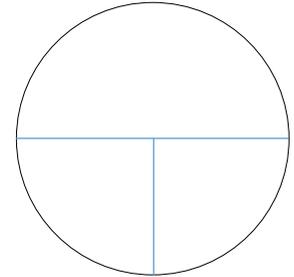
American Institute of Organ Builders

Practice Examination, Tonal

*Please note that for credit to be issued, mathematical questions must show equations and work.

1. If the circle has a diameter of 155.5 mm:

- a. Radius = _____
- b. Circumference = _____



2. If the circle has a circumference of 267 mm:

- a. Diameter = _____
- b. Radius = _____
- c. Area = _____

3. If the circle has a diameter of 155.5 mm, what would the resulting mouth width be for the following:

- a. $2/9 =$ _____
- b. $1/4 =$ _____
- c. $1/5 =$ _____

4. Using Normalmensur, you are provided a pipe with a diameter of 148.9 mm @ #1, what is the diameter of note #17? _____

5. What is the diameter of note #18? _____

6. Provide an acceptable mixture layout for a Mixture III starting on $1-1/3$.

7. You are given a Mixture based on 2' Pitch with the quint being 2 notes smaller, and are told it follows a scale of 48 @ 8'.

What is the diameter of Note 1, Rank 1? _____

What is the diameter of Note 1, Rank 2? _____

8. A rectangle has an inside measurement of 101.6 mm X 127 mm. What is the area? _____

9. Based on the area, what are the following dimensions of a circle that has the same area as a rectangle with the measurements of 57 mm x 74 mm?

- a. Circumference = _____
- b. Diameter = _____

