

### Question 1

What is pi?

- a. Pi is an irrational number defined to be the ratio of any circle's circumference to its diameter.
- b. Pi is a relationship between the equation of a sector of a circle and a square..
- c. Pi is the distance across a circle.
- d. Pi is a whole number describing the ratio of the radius and diameter of a circle.

### Question 2

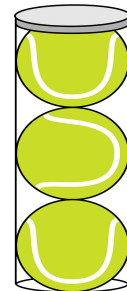
Describe the relationship between the radius and circumference of a circle?

- a. The circumference of a circle is twice the radius.
- b. The circumference of a circle is approximately 6 times the radius.
- c. The radius of a circle is twice the circumference.
- d. There is no relationship between the circumference and radius of a circle.

### Question 3

For this can of tennis balls, which of the following statements is true?

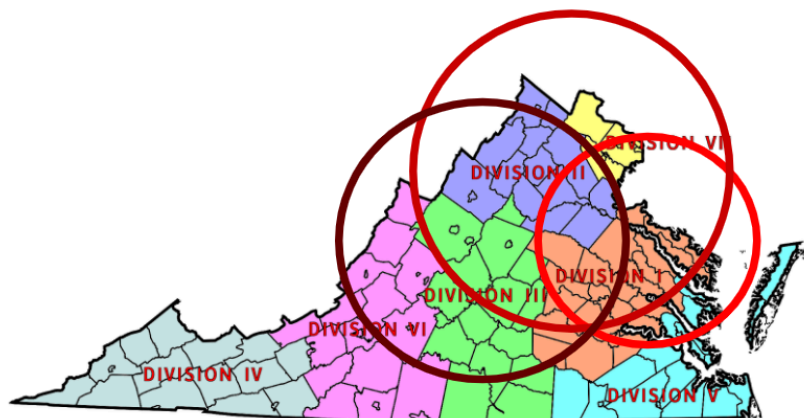
- a. The circumference of the can is greater than the height of the can.
- b. The height of the can is greater than the circumference of the can.
- c. The diameter of the can is greater than the radius of the can.
- d. The diameter of the can is greater than the circumference of the can.



### Question 4

Using triangulation, and the following solution map, where would you expect to find the suspect?

- a. DIVISION I
- b. DIVISION III
- c. DIVISION IV
- d. DIVISION V



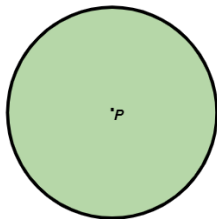
**Question 5**

Who used the method of exhaustion to accurately approximate the digits of pi?

- a. Hypatia
- b. Euler
- c. Banneker
- d. Archimedes

**Question 6**

What color is Circle P?

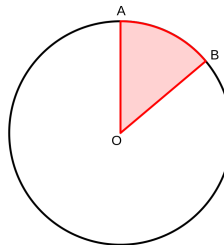


- a. Blue
- b. Green
- c. Black
- d. Red

**Question 7**

Identify the following special part of a circle:

- a. Circumference
- b. Arc
- c. Sector
- d. Annulus



**Question 8**

If the diameter of a circle is 8 units, what is the best approximation of its circumference?

- a. 4 units
- b. 24 units
- c. 16 units
- d. 64 units

**Question 9**

If the area of the following sector is 11 square units, what is the area of the whole circle?

- a. 11 square units
- b. 22 square units
- c. 33 square units
- d. 44 square units



**Question 10**

The geometry of circles is applied in which of the following careers?

- a. Molecular biology
- b. ~~Architecture~~
- c. Traffic Engineering
- d. Garden Design
- e. All of the above!

**BONUS**

What are the first 18 digits of pi?

- a. 3.123456789101112131
- b. 3.141592745673892211
- c. 3.141592653589793238
- d. 3.143143143143143143