

GRE Quant Practice Test 9

Question 1

What is the area of a circle, one-quarter of the circumference of which is 5.5 inches?

Possible Answers:

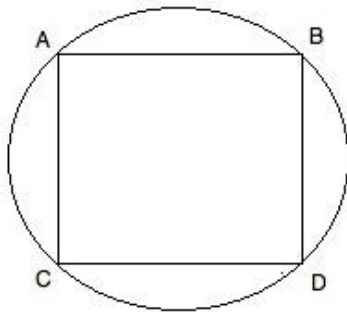
$$121\pi$$

$$225\pi$$

$$\pi/3$$

$$121/\pi$$

Question 2



In the diagram above, square ABCD is inscribed in the circle. If the area of the square is 9, what is the area of the circle?

Possible Answers:

$$4.5\pi$$

$$9\pi$$

$$3\sqrt{2}\pi$$

$$18\pi$$

$$3\pi$$

Question 3

Quantity A: Area of a circle with radius r

Quantity B: Perimeter of a circle with radius r

Possible Answers:

Quantity B is greater.

The two quantities are equal.

The relationship cannot be determined from the information given.

Quantity A is greater.

Question 4

A circle has a radius of 2.

Quantity A: The area of the circle

Quantity B: The circumference of the circle

Possible Answers:

Quantity B is greater.

Quantity A is greater.

The two quantities are equal.

The relationship cannot be determined from the information given.

Question 5

Quantity A: Area of a right triangle with sides 7, 24, 25

Quantity B: Area of a circle with radius 5

Possible Answers:

The relationship cannot be determined from the information given.

Quantity B is greater.

Quantity A is greater.

The two quantities are equal.

Question 6

If a circular garden with a radius of 3 ft. is bordered by a circular sidewalk that is 2 ft. wide, what is the area of the sidewalk?

Possible Answers:

18π

16π

14π

20π

12π

Question 7

If a circular monument with a radius of 30 feet is surrounded by a circular garden that is 20 feet wide, what is the area of the garden?

Possible Answers:

1600π

200π

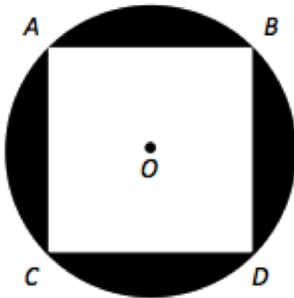
$$900\pi$$

$$400\pi$$

$$2500\pi$$

Question 8

Given circle O with a diameter of 2 and square $ABCD$ inscribed within circle O , what is the area of the shaded region?



Possible Answers:

$$4\pi - 2$$

$$2$$

$$4$$

$$\pi - 2$$

Question 9

Circle B has a circumference of 36π . What is the area of circle A , which has a radius half the length of the radius of circle B ?

Possible Answers:

$$324\pi$$

81π

18π

18

9π

Question 10

Which point could lie on the circle with radius 5 and center (1,2)?

Possible Answers:

$(3,4)$

$(3,-2)$

$(-3, 6)$

$(4,6)$

$(4,-1)$