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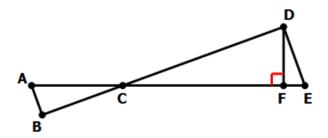


Basic Geometry Practice

20 Minutes - (Don't skip any questions)

1) Quantitative Comparison:

In the diagram, AC = 6. CE = 12, DF = 4, and AB is parallel to DE.



Quantity A	Quantity B
The area of triangle ABC	12

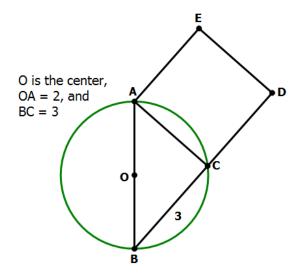
A. A > B

B. B > A

C. A = B

D. Can't be determined

2) Quantitative Comparison:



Quantity A	Quantity B
The area of square ACDE	12

A. A > B

B. B > A

C. A = B

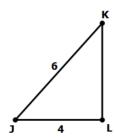
D. Can't be determined

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3) Quantitative Comparison:

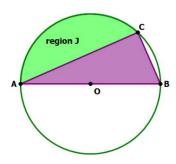


Quantity A	Quantity B
The area of triangle JKL	11

- A. A > B
- B. B > A
- C. A = B
- D. Can't be determined

4) Quantitative Comparison:

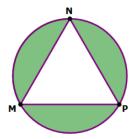
In the diagram, O is the center of the circle, and AB is a diameter. Region J is the area between chord AC and the arc of the circle.



Quantity A	Quantity B
Area of triangle ABC	Area of region J

- A. A > B
- B. B > A
- C. A = B
- D. Can't be determined

5) Quantitative Comparison:



Quantity A	Quantity B
Area of triangle MNP	Area of the shaded region

- A. A > B
- B. B > A
- C. A = B
- D. Can't be determined

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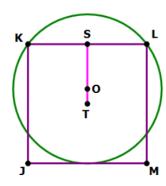


6) Quantitative Comparison:

In the diagram, JKLM is a square.

Point S is the midpoint of KL, and point T is the center of the square.

Point O is on segment ST, and is the center of the circle, which passes through both K and L.

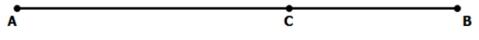


Quantity A	Quantity B
Area of circle O	Area of square JKLM
	·

- A. A > B
- B. B > A
- C. A = B
- D. Can't be determined

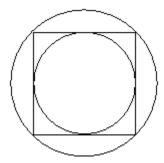
7) Quantitative Comparison:

In the diagram,
$$\frac{AB}{AC} = \frac{AC}{BC}$$



Quantity A	Quantity B
$\frac{AC}{BC}$	3

- A. A > B
- B. B > A
- C. A = B
- D. Can't be determined
- 8) In the figure below, a square is inscribed in a circle and another circle is inscribed in the square. If the area of the smaller circle is π , what is the area of the larger circle?



- A. $\pi\sqrt{2}$ B. $\pi\sqrt{3}$
- C. 2π
- D. 3π
- E. 4π

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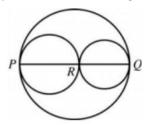


9) Rectangle R has length 30 and width 10, and the square S has length 5. The perimeter of S is what fraction of the perimeter of R? (Numeric Entry)



10) Quantitative Comparison:

Three circles with centers online segment PQ are tangent at points P, R and Q, where point R lies on line segment PQ.



Quantity A	Quantity B
The circumference of the largest circle.	The sum of the circumference of the two smaller circles.

- A. A > B
- B. B > A
- C. A = B
- D. Can't be determined
- 11) In a triangle ABC, the measure of the angle B is 90° , the length of side AB is 4, and the length of side BC is x. If the length of hypotenuse AC is between 4 and 8, which of the following could be the value of x? Indicate all such values.
 - A. 1
- B. 2
- C. 3
- D. 4
- E. 5
- F. 6
- 12) The floor space of a certain market is rented for \$15 per 30 square feet per one day. In the market, Alice rented a rectangular floor space that measured 8 feet by 15 feet, and betty rented a rectangular floor space that measured 15 feet by 20 feet. If each woman rented her floor space for one day, how much more did Betty pay more than Alice?
 - A. \$27
- B. \$36
- C. \$54
- D. \$90
- E. \$180