

SAT2-MATHEMATICS Q&As

SAT Section 2: Mathematics

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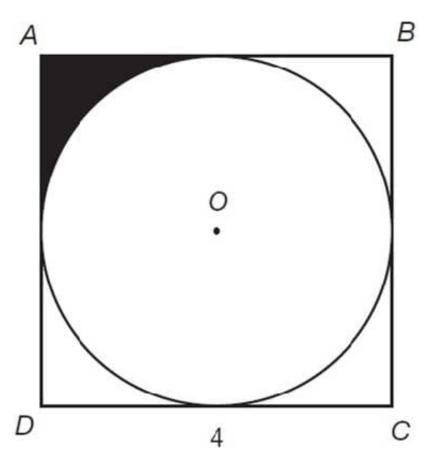
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QUESTION 1



In the diagram above, the length of a side of square ABCD is four units. What is the area of the shaded region?

A. 4

B. 4 - ?

C. 4 – 4?

D. 16?

E. 16 – 4?

Correct Answer: B

Explanation:

The area of a square is equal to S2, where s is the length of a side of the square. The area of ABCD is 42= 16 square units. The area of a circle is equal to ?r2, where r is the radius of the circle.

The diameter of the circle is four units. The radius of the circle is 4/2 = 2 square units. The area of the circle is equal to ?(2)2=4?. The shaded area is equal to one-fourth of the difference between the area of the square and the area of the circle: 1/4(16-4?)=4-?.

QUESTION 2

What is the next number in the series below? 3 16 6 12 12 8

A. 4

B. 15

C. 20

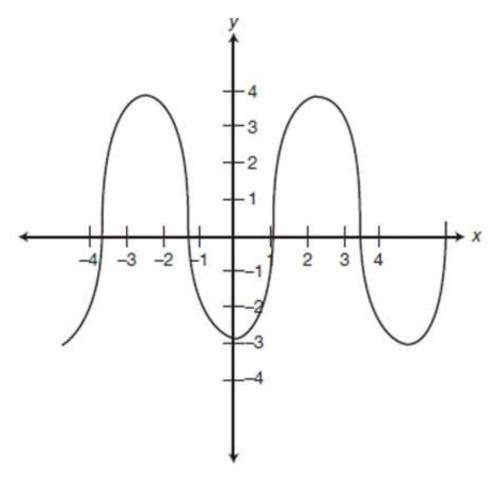
D. 24

E. 32

Correct Answer: D

This series actually has two alternating sets of numbers. The first number is doubled, giving the third number. The second number has 4 subtracted from it, giving it the fourth number. Therefore, the blank space will be 12 doubled, or 24.

QUESTION 3



The graph of f(x) is shown above. How many values can be found for f(3)?



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| A. 0 |
|---|
| B. 1 |
| C. 2 |
| D. 4 |
| E. cannot be determined |
| Correct Answer: B |
| Explanation: |
| Be careful — the question asks you for the number of values off (3) not $f(x)=3$. In other words, how many y values can be generated when x=3? If the line x=3 is drawn on the graph, it passes through only one point. There is only one value for $f(x)$ |
| QUESTION 4 |
| The value of d is increased 50%, then decreased 50%. Compared to its original value, the value of d is now |
| A. 25% smaller |
| B. 25% larger |
| C. 50% smaller |
| D. 50% larger |
| E. the same |
| Correct Answer: A |
| To increased by 50%, multiply d by 1.5:d= 1.5d. To find 50% of 1.5d, multiply 1.5d by 0.5: $(1.5d)(0.5) = 0.75d$. Compared to its original value, d is now 75% of what it was. The value of d is now 25% smaller. |
| QUESTION 5 |
| The length of a rectangle is one greater than three times its width. If the perimeter of the rectangle is 26 feet, what is the area of the rectangle? |
| A. 13 ft2 |
| B. 24 ft2 |
| C. 30 ft2 |
| D. 78 ft2 |
| E. 100 ft2 |
| Correct Answer: C |



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The perimeter of a rectangle is equal to 2l+2w, where I is the length of the rectangle and w is the width of the rectangle. If the length is one greater than three times the width, then set the width equal to x and set the length equal to 3x+1:

$$2(3x+1)+2(x)=26$$

$$6x + 2 + 2x = 26$$

$$8x = 24$$

$$x = 3$$

The width of the rectangle is 3 ft and the length of the rectangle is 10 ft. The area of a rectangle is equal to lw;(10 ft)(3 ft) = 30 ft2.

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