SAT2-MATHEMATICS^{Q&As}

SAT Section 2: Mathematics

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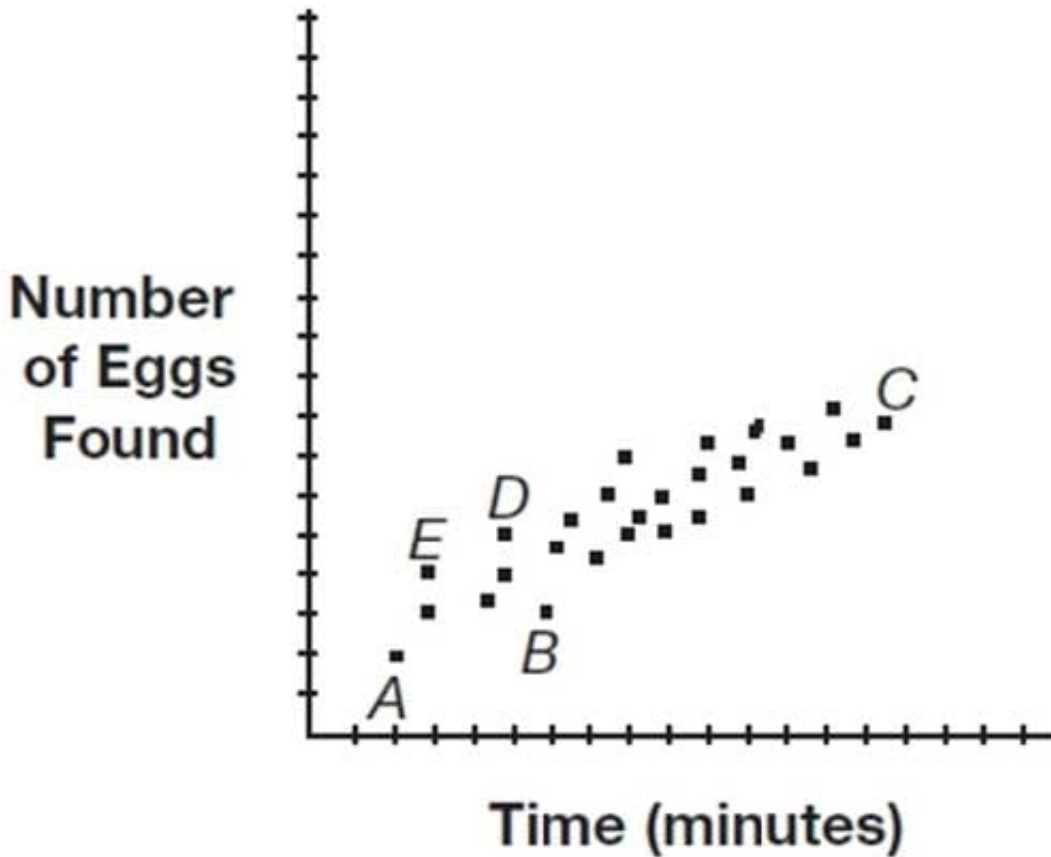
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QUESTION 1

Eggs Found in a Hunt Over Time

The scatter plot above shows how many eggs were found in a hunt over time. Which of the labeled points represents a number of eggs found that is greater than the number of minutes that has elapsed?

A. A

B. B

C. C

D. D

E. E

Correct Answer: E

The point that represents a number of eggs found that is greater than the number of minutes that has elapsed is the point that has a y value that is greater than its x value. Only point E lies farther from the horizontal axis than it lies from the vertical axis. At point E, more eggs have been found than the number of minutes that has elapsed.

QUESTION 2

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What is the equation of the line that passes through the points (2, 3) and (?, 5)?

A. $y = x + 1$

B. $y = \dfrac{-1}{2}x + 4$

C. $y = \dfrac{-1}{2}x$

D. $y = \dfrac{-3}{2}x$

E. $y = \dfrac{-3}{2}x + 2$

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: B

First, find the slope of the line. The slope of a line is equal to the change in y values divided by the change in x values of two points on the line. The y value increases by 2(5 - 3) and the x value decreases by 4(-2 2). Therefore, the slope of the line is equal to -2/4 or -1/2 The equation of the line is Y= -1/2x + b here b is they-intercept. Use either of the two given points to solve for b:
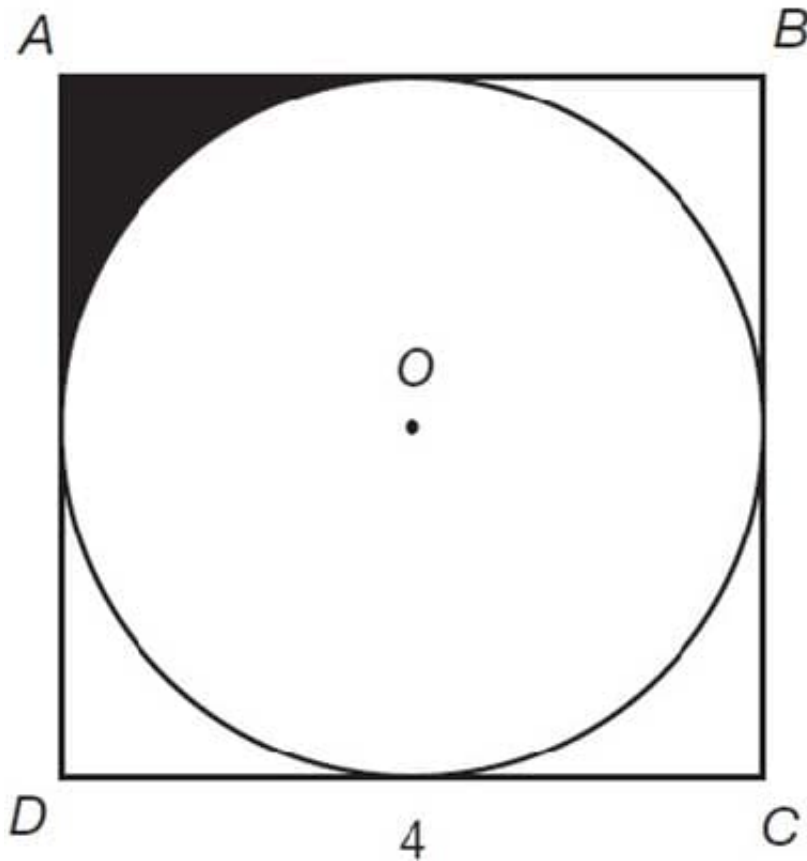
$$3 = \dfrac{-1}{2}(2) + b$$

$$3 = -1 + b$$

$$b = 4$$

$$y = \dfrac{-1}{2}x + 4$$

The equation of the line that passes through the points (2, 3) and (-2, 5) is .

QUESTION 3

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 4

SIMULATION
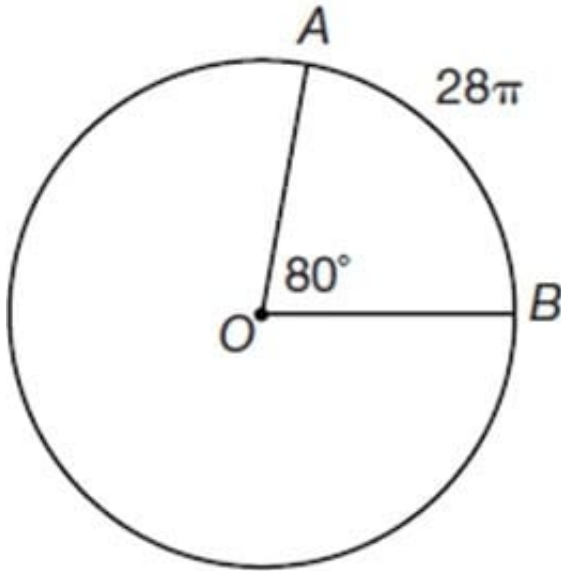
In the circle above, the measure of angle AOB is 80 degrees and the length of arc AB is 28 units. What is the radius of the circle?

A. 63

Correct Answer: A

The size of an intercepted arc is equal to the measure of the intercepting angle divided by 360, multiplied by the circumference of the circle (2r, where r is the radius of the circle):

$$28\pi = \left(\frac{80}{360}\right)(2\pi\ r),\quad 28 = \left(\frac{4}{9}\right)r,\quad r = 63$$

units.

QUESTION 5

Monica sells pretzels in the cafeteria every school day for a week. She sells 14 pretzels on Monday, 12 pretzels on Tuesday, 16 pretzels on Wednesday, and 12 pretzels on Thursday. Then, she calculates the mean, median, and mode of her sales. If she sells 13 pretzels on Friday, then

A. the mode will increase.

B. the mean will stay the same.

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C. the median will stay the same.

D. the median will decrease.

E. the mean will increase.

Correct Answer: C

For the first four days of the week, Monica sells 12 pretzels, 12 pretzels, 14 pretzels, and 16 pretzels. The median value is the average of the second and third values:

$$\frac{12+14}{2} = \frac{26}{2} = 13.$$

If Monica sells 13 pretzels on Friday, the median will still be 13. She will have sold 12 pretzels, 12 pretzels, 13 pretzels, 14 pretzels, and 16 pretzels. The median stays the same.

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