SAT2-MATHEMATICS Q&As

SAT Section 2: Mathematics

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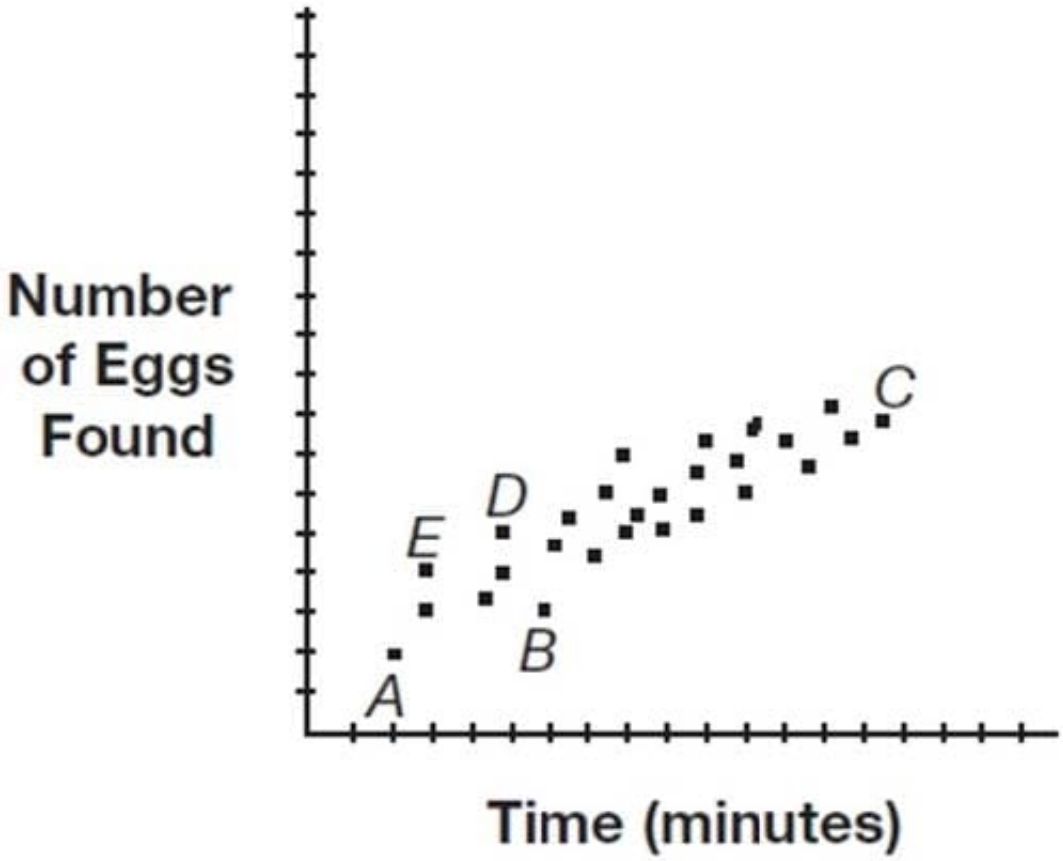
QUESTION 1

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

What is the slope of the line –3y = 12x – 3?

A. –4

B. –3

C. 1

D. 4

E. 12

Correct Answer: A

First, convert the equation to slope-intercept for m:y= m x+b Divide both sides of the equation by –3:

$$\frac{-3y}{-3}=\frac{12x-3}{-3}$$

$$y=-4x+1$$

The slope of a line written in this form is equal to the coefficient of the x term. The coefficient of the term is -4, so the slope of the line is -4

QUESTION 3

If A. Option A

$$g\frac{1}{4}=16,\ than\ g(-\frac{1}{5})$$

A. $\frac{1}{4}$

B. $\frac{1}{8}$

C. $\frac{16}{5}$

D. 4

E. 8

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: A

$g(\frac{2}{5})$ to $g(-\frac{1}{5})$,

To go from you would multiply the exponent of g(2/5) by (-1/2). Therefore, to go from 16 (the value of g (2/5)to the value of g(-1/5)multiply the exponent of 16 by (-1/5) The exponent of 16 is one, so the value of g (- 1/5) = 16 to the(-1/2) power, which is 1/4.

QUESTION 4

$a < \frac{43}{3x} < b$, and $a=4$ and $b=8$,

If which of the following could be true?

A. $x < a$

B. $x > b$

C. $a < x < b$

D. $4 < x < 8$

E. none of the above

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: A

If a = 4, x could be less than a. For example, x could be

$$3:\ 4<\frac{43}{3(3)}<8,\ 4<\frac{43}{9}<8,\ 4<4\frac{7}{9}<8.$$

Although x