SAT2-MATHEMATICS$^{Q\&As}$

SAT Section 2: Mathematics

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QUESTION 1

A line has a y-intercept of –6 and an x-intercept of 9. Which of the following is a point on the line?

A. (–6,–10)

B. (1,3)

C. (0,9)

D. (3,–8)

E. (6,13)

Correct Answer: A

A line with a y-intercept of –6 passes through the point (0,–6) and a line with an x-intercept of 9 passes through the point (9,0). The slope of a line is equal to the change in y values between two points on the line divided by the change in the x values of those points. The slope of this line is equal to

$$\frac{0-(-6)}{9-0} = \frac{6}{9} = \frac{2}{3}$$

$$y = \frac{2}{3}x - 6.$$

The equation of the line that has a slope of 2/3 and a y-intercept of –6 is
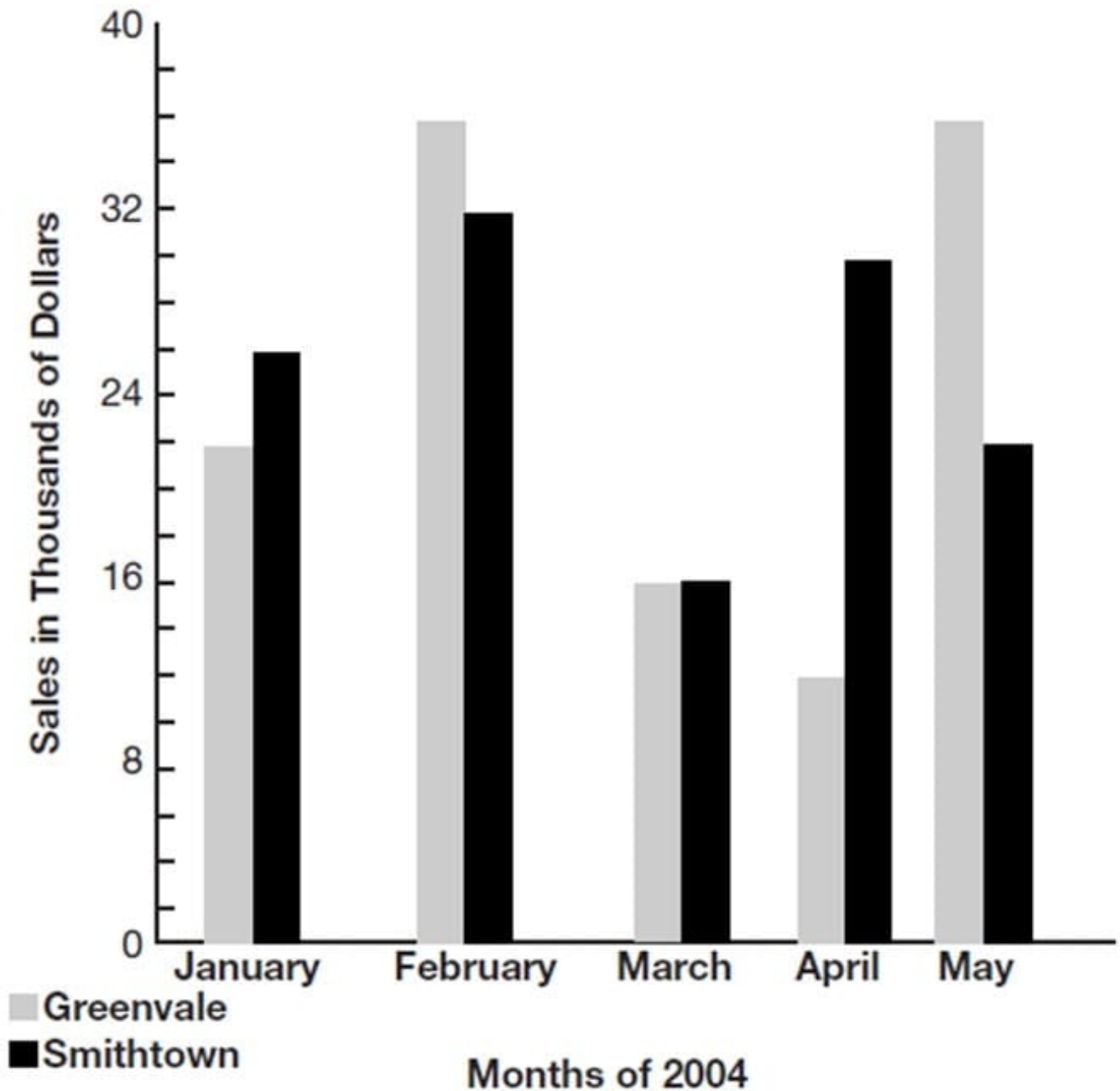
$$\frac{2}{3}(-6) - 6 = -4 - 6 = -10;$$

When x = -6, y is equal to

$$y = \frac{2}{3}x - 6$$

therefore, the point (-6, -10) is on the line

QUESTION 2

SIMULATION Sales of the Greenvale and Smithtown Branches of SuperBooks

The graph above shows the sales by month for the Greenvale and Smithtown branches of SuperBooks. From January through May, how much more money did the Smithtown branch gross in sales than the Greenvale branch?

A. 4000

Correct Answer: A

The Greenvale sales, represented by the light bars, for the months of January through May respectively

were $22,000, $36,000, $16,000, $12,000, and $36,000, for a total of $122,000. The Smithtown sales,

represented by the dark bars, for the months of January through May respectively were $26,000, $32,000,

$16,000, $30,000, and $22,000, for a total of $126,000. The Smithtown branch grossed

$126,000 ?$122,000 = $4,000 more than the Greenvale branch.

QUESTION 3

The diagonal of one face of a cube measures 42in. What is the volume of the cube?

A. $24\sqrt{2}\ in^3$

B. $64\ in^3$

C. $96\ in^3$

D. $128\sqrt{2}\ in^3$

E. $192\ in^3$

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: B

Every face of a cube is a square. The diagonal of a square is equal to S2 where s is the length of a side of the square. If S2 = 42 then one side, or edge, of the cube is equal to 4 in. The volume of a cube is equal to e3,where is the length of an edge of the cube. The volume of the cube is equal to (4 in)3= 64 in 3.

QUESTION 4
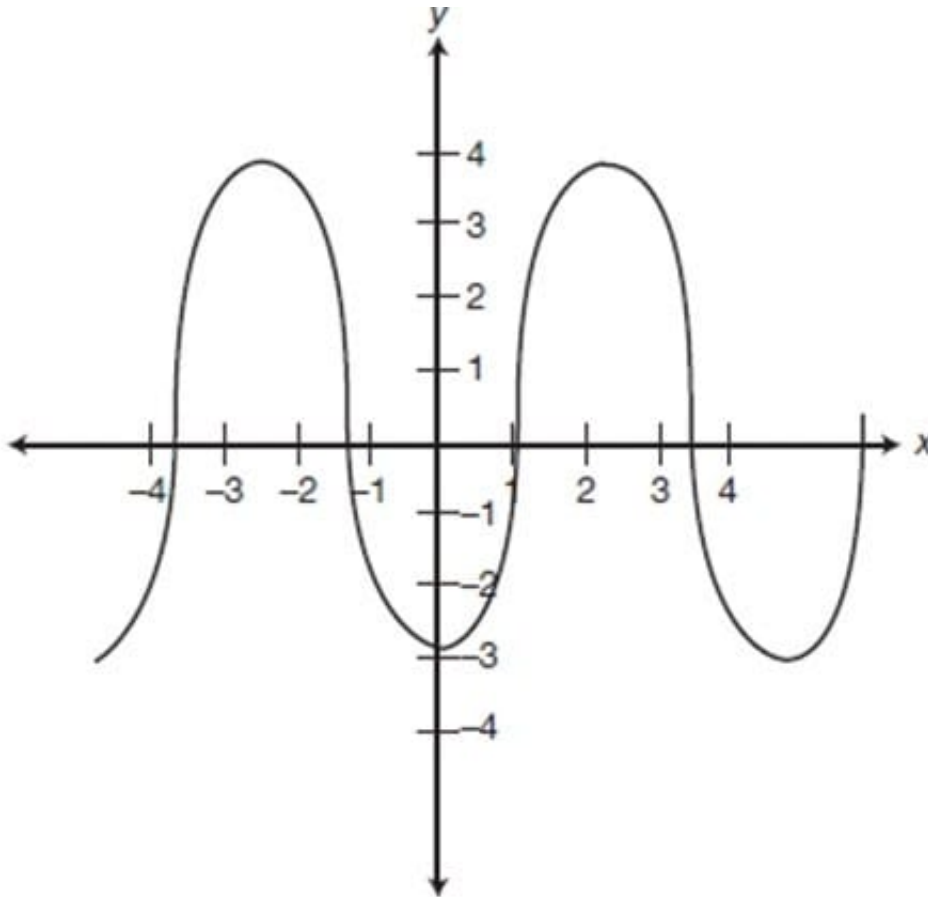
The graph of f(x)is shown above. How many values can be found for f(3)?

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 5

What is the tenth term of the pattern below?

$$\frac{10}{1,024}, \frac{9}{512}, \frac{8}{256}, \frac{7}{128},$$

A. $\frac{1}{2}$

B. $\frac{2}{9}$

C. $\frac{9}{2}$

D. $\frac{9}{4}$

E. 1

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: A

The denominator of each term in the pattern is equal to 2 raised to the power given in the numerator. The numerator decreases by 1 from one term to the next. Since 10 is the numerator of the first term, 10 ?9, or 1, will be the numerator of the tenth term. 21= 2 so the tenth term will be1/2.