

SAT2-MATHEMATICS Q&As

SAT Section 2: Mathematics

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QUESTION 1

Greg has nine paintings. The Hickory Museum has enough space to display three of them. From how many different sets of three paintings does Greg have to choose?

- A. 27
- B. 56
- C. 84
- D. 168
- E. 504

Correct Answer: C

Be careful not to count the same set of three paintings more than once -- order is not important. A ninechoose-three combination is equal to

$$\binom{9}{8}\binom{7}{7} = \frac{504}{6} = 84$$

QUESTION 2

The point (6, -3) could be the midpoint of which of the following lines?

- A. a line with endpoints at (0,-1) and (12,-2)
- B. a line with endpoints at (2,-3) and (6,1)
- C. a line with endpoints at (6,0) and (6,-6)
- D. a line with endpoints at (-6,3) and (-6,-3)
- E. a line with endpoints at (3,3) and (12,-6)

Correct Answer: C

The midpoint of a line is equal to the average of the x-coordinates and the average of the y-coordinates of

the endpoints of the line. The midpoint of the line with endpoints at and (6, -6) is

$$\left(\frac{6+6}{2},\frac{0+-6}{2}\right) = \left(\frac{12}{2},-\frac{6}{2}\right) = \left(6,-3\right).$$

QUESTION 3

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SIMULATION

The length of a rectangular prism is four times the height of the prism and one-third the width of the prism. If the volume of the prism is 384 in 3, what is the width of the prism?

A. 24

Correct Answer: A

If the height of the prism is h, then the length of the prism is four times that, 4h. The length is one-third of the width, so the width is three times the length: 12h. The volume of the prism is equal to its length multiplied by its width multiplied by its height:

$$(h) |(4h)|(12h)=384$$

 $48h^3=384$
 $h^3=8$
 $h=2$

The height of the prism is 2 in, the length of the prism is (2 in)(4) = 8 in, and the width of the prism is (8 in)

(3) = 24 in.

QUESTION 4

The equation A. -8 or 8.

$$\frac{x^2}{4} - 3x = -8$$
 When $x = ?$

B. -4 or 4.

C. -4 or -8.

D. 4 or -8.

E. 4 or 8.

Correct Answer: E

Write the equation in quadratic form and find its roots:

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$$\frac{x^2}{4} - 3x = -8$$

$$x^2 - 12x = -32$$

$$x^2 - 12x + 32 = 0$$

$$(x-8)(x-4)=0$$

$$x-8=0, x=4$$

$$\frac{x^2}{4} - 3x = -8 \text{ when } x \text{ is either 4 or 8.}$$

QUESTION 5

A box contains five blue pens, three black pens, and two red pens. If every time a pen is selected, it is removed from the box, what is the probability of selecting a black pen followed by a blue pen?

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

B.
$$\frac{1}{10}$$

C.
$$\frac{1}{50}$$

D.
$$\frac{3}{20}$$

E.
$$\frac{77}{90}$$



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E. Option E

Correct Answer: A

At the start, there are 5 + 3 + 2 = 10 pens in the box, 3 of which are black. Therefore, the probability of selecting a black pen is 3/10 After the black pen is removed, there are nine pens remaining in the box, five of which are blue. The

$$(\frac{3}{10})(\frac{5}{9}) = \frac{15}{90} = \frac{1}{6}$$

probability of selecting a blue pen second is 5/9 To find the probability that both events will happen, multiply the probability of the first event by the probability of the second event:

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