SAT2-MATHEMATICS^Q&As

SAT Section 2: Mathematics

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QUESTION 1

The expression $4x^2 - 2x + 3$ is equal to 3 when $x = 0$ and when $x =$

A. $\dfrac{-1}{2}$

B. $\dfrac{-1}{4}$

C. $\dfrac{1}{8}$

D. $\dfrac{1}{4}$

E. $\dfrac{1}{2}$

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: E

Set the expression $4x^2 - 2x + 3$ equal to 3 and solve for x:

$$4^{x^2} - 2x + 3 = 3$$

$$4^{x^2} - 2x + 3 - 3 = 3 - 3$$

$$4^{x^2} - 2x = 0$$

$$4x\left(x - \frac{1}{2}\right) = 0$$

$$x = 0, \quad x = \frac{1}{2}$$

QUESTION 2

$$\frac{\frac{b}{a} - a}{\frac{1}{a^{-1}}} = ¿$$

A. b

B. $b - a^2$

C. $\frac{b}{a} - 1$

D. $\frac{b}{a^2} - 1$

E. $\frac{b}{a^2} - a$

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: D

$$\frac{1}{a^{-1}} = \frac{\frac{1}{1}}{a} = a, \quad \frac{\frac{b}{a} - a}{a} = \left(\frac{b}{a} - a\right)\left(\frac{1}{a}\right) = \frac{b}{a^2 - 1}$$

QUESTION 3

Four copy machines make 240 total copies in three minutes. How long will it take five copy machines to make the same number of copies?

A. 2 minutes

B. 2 minutes, 15 seconds

C. 2 minutes, 24 seconds

D. 2 minutes, 45 seconds

E. 3 minutes, 36 seconds

Correct Answer: C

If four copy machines make 240 copies in three minutes, then five copy machines will make 240 copies in x minutes:

$$(4)(240)(3) = (5)(240)(x)$$
$$2,880 = 1,200 x$$
$$x = 2.4$$

Five copy machines will make 240 copies in 2.4 minutes. Since there are 60 seconds in a minute, 0.4 of a minute is equal to (0.4)(60) = 24 seconds. The copies will be made in 2 minutes, 24 seconds.

QUESTION 4

A spinner is divided into eight equal regions, labeled one through eight. If Jenna spins the wheel, what is the probability

that she will spin a number that is less than four and greater than two?

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

B. $\frac{9}{32}$

C. $\frac{3}{8}$

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

E. $\frac{3}{4}$

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: A

There are three numbers on the wheel that are less than four (1, 2, 3), but only one of those numbers (3) is greater than two. The probability of Jenna spinning a number that is both less than 4 and greater than 2 is 1/8.

QUESTION 5

If 40% of j is equal to 50% of k, then j is

A. 10% larger than k.

B. 15% larger than k.

C. 20% larger than k.

D. 25% larger than k.

E. 80% larger than k.

Correct Answer: D

40% of j= 0.4j, 50% of k = 0.5k. If 0.4j= 0.5k, = 1.25kis equal to 125% of k, which means that j is 25% larger thank.

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