SAT2-MATHEMATICS Q&As

SAT Section 2: Mathematics

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QUESTION 1

Lindsay grows only roses and tulips in her garden. The ratio of roses to tulips in her garden is 5:6. If there are 242 total flowers in her garden, how many of them are tulips?

A. 22

B. 40

C. 110

D. 121

E. 132

Correct Answer: E

The number of roses, 5x, plus the number of tulips, 6x, is equal to 242 total flowers: 5x + 6x = 242, 11x = 242, x = 22. There are 5(22) = 110 roses and 6(22) = 132 tulips in Lindsay\\'s garden.

QUESTION 2

When x= –3, the expression –2x2 + 3x – 7 =

A. –34.

B. –27.

C. –16.

D. –10.

E. 2.

Correct Answer: A

Explanation:

Substitute –3 for x:–2(–3)2+ 3(–3) – 7 = –2(9) – 9 – 7 = –18 – 16 = –34

QUESTION 3

$$y = \frac{x+6}{x^2+7x-18}$$

The equation is undefined when

A. –9.

B. –2.

C. –6.

D. 0.

E. 9.

Correct Answer: A

An equation is undefined when the value of a denominator in the equation is equal to zero. Set x 2?7x +18 equal to zero and factor the quadratic to find its roots:

$$x^2+7x-18=0$$
$$(x+9)(x-2)=0$$
$$x=-9,\ x=2$$

QUESTION 4

SIMULATION

If point A is at (–1, 2) and point B is at (11, –7), what is length of line AB?

A. 15

Correct Answer: A

Use the distance formula to find the distance

from $(-1,2)$ to $(11,-7)$:

Distance $\sqrt{(x_2-x_1)^2+(y_2-y_1)^2}$

Distance $=\sqrt{(11-(-1))^2+((-7)-2)^2}$

Distance $\sqrt{(12)^2+(-9)^2}$

Distance $\sqrt{144+81}$

Distance $\sqrt{255}$

Distance 15 units

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.