

# SAT2-MATHEMATICS Q&As

## SAT Section 2: Mathematics

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#### **QUESTION 1**

Which of the following has the greatest value when x = -1/4?



$$B. \frac{-3}{8x}$$

C. 4x + 3





- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Correct Answer: E





$$\frac{1}{81^{+}} = \frac{1}{81^{+}} = \frac{81^{1}}{4} = 3$$

#### **QUESTION 2**

Which of the following number pairs is in the ratio 4:5?





B. 
$$\frac{1}{5}$$
,  $\frac{1}{4}$ 

c. 
$$\frac{1}{5}$$
,  $\frac{4}{5}$ 

D. 
$$\frac{4}{5}$$
,  $\frac{5}{4}$ 



- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Correct Answer: B

Two numbers are in the ratio 4:5 if the second number is 5/4 times the value of the first number; 1/4 is 5/4 times the value of 1/5.

#### **QUESTION 3**

Monica sells pretzels in the cafeteria every school day for a week. She sells 14 pretzels on Monday, 12 pretzels on Tuesday, 16 pretzels on Wednesday, and 12 pretzels on Thursday. Then, she calculates the mean, median, and mode of her sales. If she sells 13 pretzels on Friday, then

A. the mode will increase.



- B. the mean will stay the same.
- C. the median will stay the same.
- D. the median will decrease.
- E. the mean will increase.

Correct Answer: C

For the first four days of the week, Monica sells 12 pretzels, 12 pretzels, 14 pretzels, and 16 pretzels. The median value is the average of the second and third values:

$$\frac{12+14}{2} = \frac{26}{2} = 13$$

If Monica sells 13 pretzels on Friday, the median will still be 13. She will have sold 12 pretzels, 12 pretzels, 13 pretzels, 14 pretzels, and 16 pretzels. The median stays the same.

#### **QUESTION 4**

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 5**

There are seven vocalists, four guitarists, four drummers, and two bassists in Glen Oak\\'s music program, while there are five vocalists, eight guitarists, two drummers, and three bassists in Belmont\\'s music program. If a band comprises one vocalist, one guitarist, one drummer, and one bassist, how many more bands can be formed in Belmont?

A. 4

B. 10



C. 16

D. 18

E. 26

Correct Answer: C

Explanation: Multiply the numbers of vocalists, guitarists, drummers, and b assists in each town to find the number of bands that can be formed in each town. There are (7)(4)(4)(2) = 224 bands that can be formed in Glen Oak. There are (5)(8)(2)(3) = 240 bands that can be formed in Belmont; 240 - 224 = 16 more bands that can be formed in Belmont.

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