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ASVAB Section Six : Mathematics Knowledge

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QUESTION 1

The cube root of 64 is _____.

A. 3

B. 9

C. 2

D. 4

Correct Answer: D

Explanation:

The cube of 4 = 4 x 4 x 4 = 64, so 4 is the cube root of 64.

QUESTION 2

If a is a negative number, and ab is a positive number, then which of the following must be true?

A. b is positive

B. a is greater than b

C. b is negative

D. b is greater than a

Correct Answer: C

Explanation:

The product of a negative number and a positive number is always negative. The product of two negative

numbers is always a positive number.

Since ab is positive and a is negative, b must be negative, too.

QUESTION 3

What\\'s the sum of the integers from 1 to 300?

A. 38,243

B. 45,150

C. 49,923

D. 52,024

Correct Answer: B

Explanation:

The formula to find the sum of a finite arithmetic sequence is S =n/2(a+b), where n is the number of terms,

a is the first term in the sequence, and b is the last term in the sequence.

In this case there are 300 terms (n), and the first term is 1 and the final term is 300.

S = n/2(a + b)

S = 300/2(1 + 300)

S = 150(301)

S = 45,150

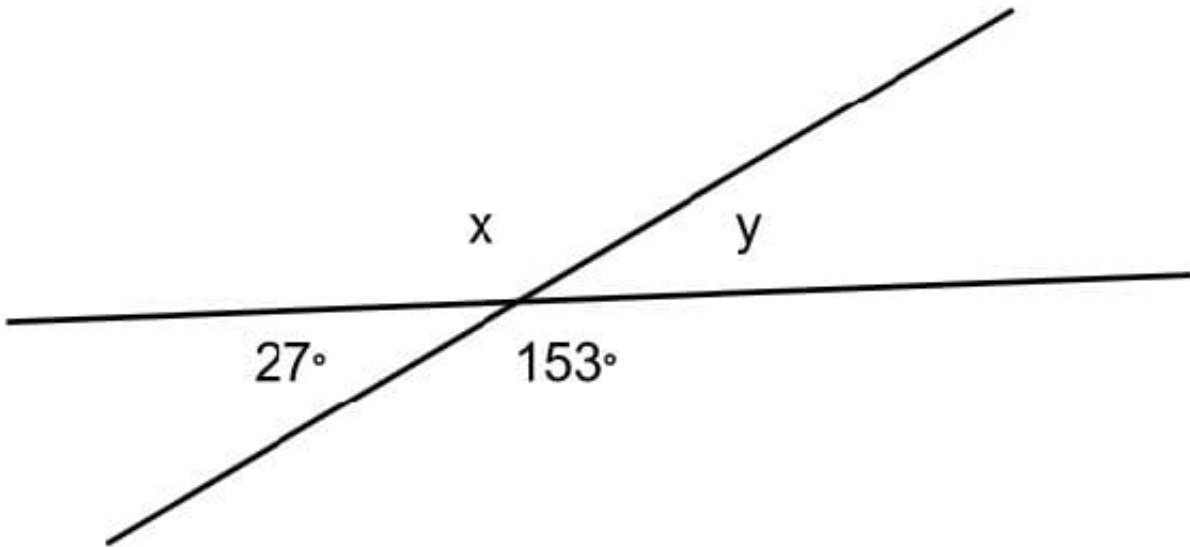**QUESTION 4**

If 0.08/x = 1, then x = _____.

A. 8

B. 80

C. 0.8

D. 0.08

Correct Answer: D

QUESTION 5

In the diagram provided, what is the value of x?

A. 153°

B. 333°

C. 27°

D. 207°

Correct Answer: A