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# ASVAB-SECTION-6<sup>Q&As</sup>

ASVAB Section Six : Mathematics Knowledge

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**QUESTION 1**

If a3 + b3 = a3 + x3, then b = _____.

A. b3 – a3

B. x

C. a3 – b3

D. a

Correct Answer: B

Explanation: To solve, subtract a3 from both sides of the equation: a3 + b3 – a3 = a3 + x3 – a3 b3 = x3 b = x

**QUESTION 2**

If (5 + 1)(6 ÷ 3)(8 – 5) = (3 + 3)x, then x = _____.

A. 12

B. 3

C. 4

D. 6

Correct Answer: D

Explanation:

Solve the first half of the equation. (6) (2) (3) = 36.

Therefore, 36 = (3 + 3)x, which turns into 36 = 6x. Isolate x.

36 ÷ 6 = 6x ÷ 6

6 = x

To check your answer, substitute 6 for x.

**QUESTION 3**

An aquarium measures 16-inches long x 8-inches deep x 18-inches high.

What\\'s its volume?

A. 2,304 cubic inches

B. 128 cubic inches

C. 42 cubic inches

D. 288 cubic inches

Correct Answer: A

Explanation:

Volume equals length x width x height (V = lwh).

16 x 8 x 18 = 2,304 cubic inches.

**QUESTION 4**

One of the equal angles of an isosceles triangle is 40 degrees.

What is the angle opposite the unequal side?

A. 40 degrees

B. 90 degrees

C. 100 degrees

D. 140 degrees

Correct Answer: C

Explanation:

In an isosceles triangle, two of the sides are equal. This means that the angles opposite them are equal,

too. If one is 40 degrees, then so is the other. To find the angle opposite the unequal side, begin by adding

the equal angles.

40 + 40 = 80 degrees

To find the third angle, subtract this amount from 180 (the number of degrees in any triangle)

180 - 80 = 100 degrees (third angle).

**QUESTION 5**

What is the value of (0.2)3?

A. 0.008

B. 0.8

C. 0.006

D. 0.6

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Correct Answer: A

Explanation:

(0.2)3 means 0.2 x 0.2 x 0.2

Multiply the first two numbers:

0.2 x 0.2 x 0.2 = 0.04 x 0.2

Now multiply the remaining two numbers:

0.04 x 0.2 = 0.008

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