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

ASVAB Section Six : Mathematics Knowledge

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### QUESTION 1

A cube has a volume of 64 cubic feet.

The surface area of the cube is \_\_\_\_\_.

- A. 64 square feet
- B. 384 square feet
- C. 96 square feet
- D. 128 square feet

Correct Answer: C

Explanation: A cube is made up of equal length sides (s). The volume of a cube is  $s \times s \times s$ . Therefore,  $s = 4$  in this case ( $4 \times 4 \times 4 = 64$ ). A cube is made up of 6 squares, each with an area of  $s \times s$ . Therefore, the surface area of a cube is  $6 \times s \times s = 6 \times 4 \times 4 = 96$

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### QUESTION 2

The cube of 6 is \_\_\_\_\_.

- A. 125
- B. 225
- C. 216
- D. 238

Correct Answer: C

Explanation:

The cube of 6 =  $6 \times 6 \times 6 = 216$ .

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### QUESTION 3

What is the value of  $(+2)(-5x + 3)(-3)$ ?

- A. +90
- B. +60
- C. -13
- D. -3

Correct Answer: A



Explanation:

To find the product of more than two numbers, work on only two numbers at a time. If both of these numbers have plus signs (+), their product has a plus sign, to both have minus signs (-), their product has a plus (not a minus) sign. But if their signs are different, the product has a minus sign.

$$(+2) (-5) (+3) (-3)$$

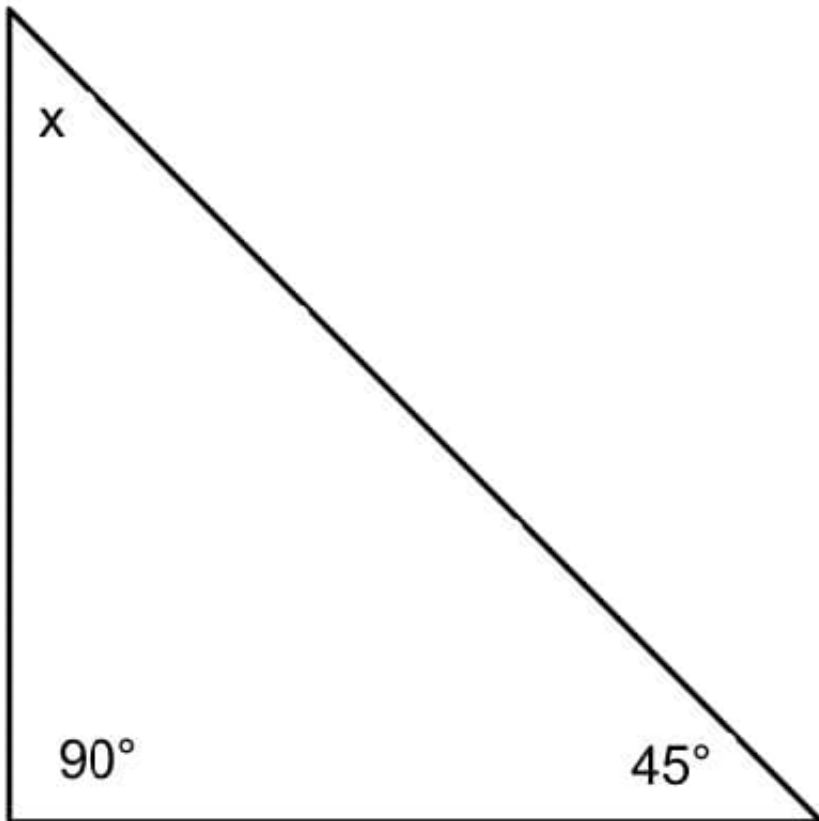
$$= (-10) (+3) (-3)$$

$$= (-30) (-3)$$

$$= +90$$

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#### QUESTION 4



In the attached diagram what is the value of  $x$ ?

- A.  $45^\circ$
- B.  $90^\circ$
- C.  $60^\circ$
- D.  $15^\circ$



Correct Answer: A

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#### QUESTION 5

$x^2 \times x^4 =$  \_\_\_\_\_.

A.  $x^6$

B.  $x^8$

C.  $2x^6$

D.  $2x^8$

Correct Answer: A

Explanation:

If two exponents have the same base, you can multiply them by keeping the base and adding the exponents together.

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