ASVAB-SECTION-6 Q&As

ASVAB Section Six : Mathematics Knowledge

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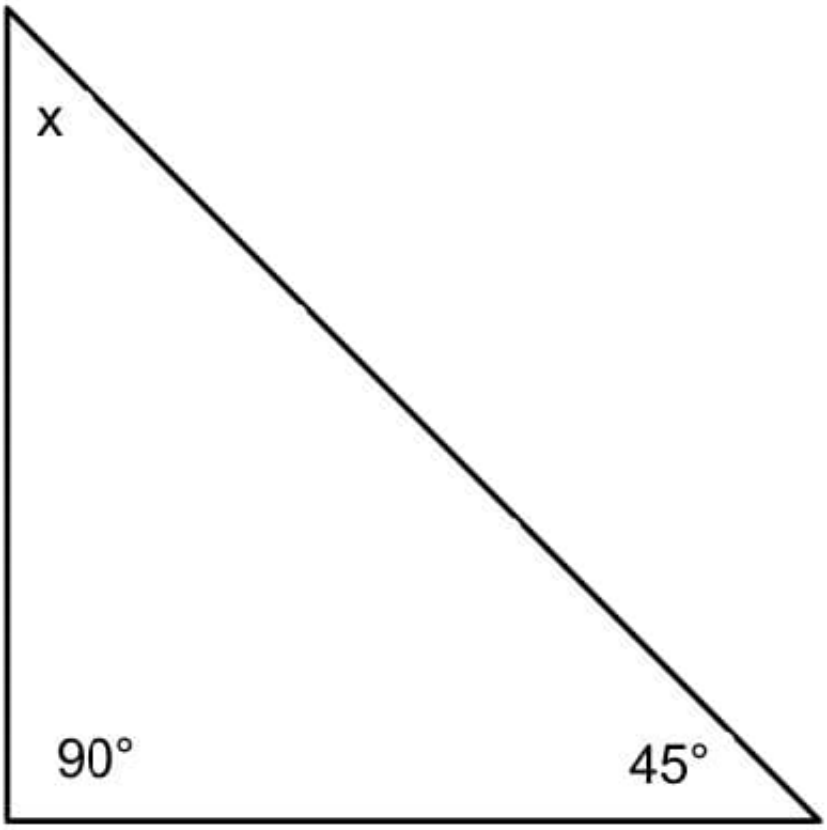
QUESTION 1



In the attached diagram what is the value of x?

A. 45°

B. 90°

C. 60°

D. 15°

Correct Answer: A

QUESTION 2

(x3)3 = _____.

A. 3x3

B. x6

C. x9

D. 2x6

Correct Answer: C

Explanation:

(x3)3 is the same as (x3) (x3) (x3).

Multiply exponents with the same base by keeping the base and adding the exponents: (x3) (x3) (x3) = x9.

QUESTION 3

An artist sold 4 of his paintings. These represented 0.05 of all the artwork he had done.

How many paintings had he made at that point?

A. 100

B. 80

C. 50

D. 20

Correct Answer: B

Explanation:

Let p stand for the total number of paintings the artist has made. The 4 paintings he sold are equal to 0.05

of all his paintings. This can be expressed as an equation:

0.05p = 4

To solve for p, divide both sides by 0.05. This undoes the multiplication of 0.05 and p and gives you the

value of p so that you know the total number of paintings the artist has painted.

QUESTION 4

Solve the following equation. y3 x y4 = _____.

A. y7

B. y12

C. 2y7

D. 2y12

Correct Answer: A

Explanation:

When multiplying two powers with the same base, you keep the base and add the exponents.

QUESTION 5

What is 50 percent of 78?

A. 24

B. 29

C. 39

D. 44

Correct Answer: C

Explanation: Multiply 78 x 0.5