



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

ASVAB Section Six : Mathematics Knowledge

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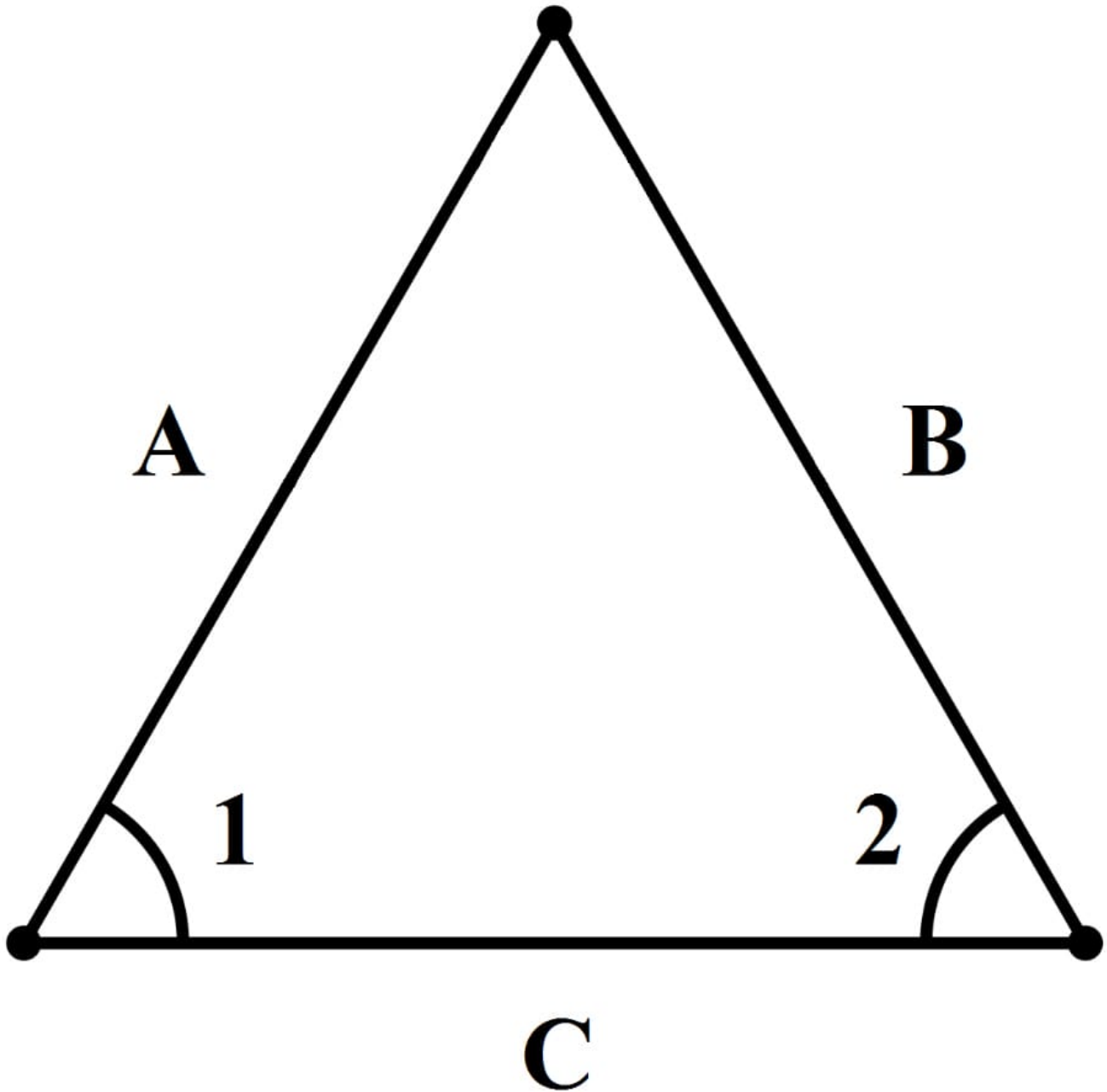
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QUESTION 1



Triangle ABC as shown above is a(n) \_\_\_\_\_.

- A. equilateral triangle
- B. right triangle
- C. scalene triangle
- D. isosceles triangle



Correct Answer: D

Explanation:

In an isosceles triangle, Sides A and C are equal, and Angles 1 and 2 are equal.

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### QUESTION 2

The reciprocal of  $\frac{1}{6}$  is \_\_\_\_\_.

- A. 1
- B. 3
- C. 6
- D.  $\frac{1}{3}$

Correct Answer: C

Explanation:

A reciprocal is the number by which a number can be multiplied to produce 1.

So the reciprocal of  $\frac{1}{6}$  is 6 because  $\frac{1}{6} \times 6 = 1$ .

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### QUESTION 3

$x + y = 6$  and  $x - y = 4$ .

Solve for x.

- A. 3
- B. 5
- C. 7
- D. 8

Correct Answer: B

Explanation:  $x + y = 6$ , so  $y = 6 - x$ . Substitute this known value for y in the second equation.  $x - y = 4$   
 $x - (6 - x) = 4$   
 $x - 6 + x = 4$   
 $2x - 6 = 4$   
 $2x = 10$   
 $x = 5$

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### QUESTION 4

Which is equivalent to  $\frac{43}{8}$ ?

- A.  $\frac{12}{8}$



B.  $3/32$

C.  $3/20$

D.  $35/8$

Correct Answer: D

Explanation:

Multiply  $8 \times 4$  to get  $32/8 + 3/8 = 35/8$

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### QUESTION 5

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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