

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

ASVAB Section Six : Mathematics Knowledge

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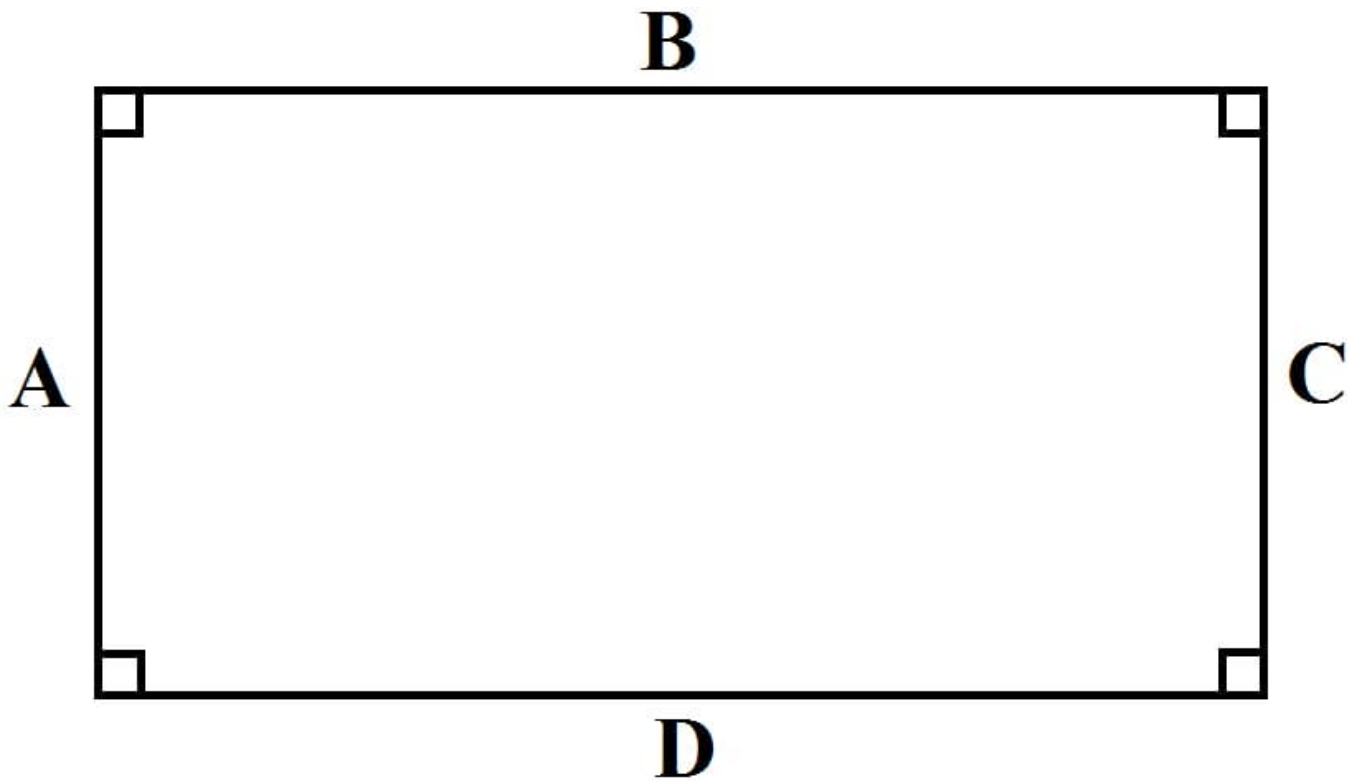
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## QUESTION 1



The angles of the quadrilateral above \_\_\_\_\_.

- A. are all right angles
- B. each equal 45 degrees
- C. are all unequal
- D. total 180 degrees

Correct Answer: A

Explanation:

Rectangles have four equal angles, and all angles are right angles.

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## QUESTION 2

$?49 \div ?64 =$  \_\_\_\_\_.

- A. 1?4
- B. 1?2
- C. 1?3

D.  $7\sqrt{8}$

Correct Answer: A

Explanation:

The square root of 49 is 7; the square root of 64 is 8.  $7 \div 8 = 7\sqrt{8}$ .

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**QUESTION 3**

Which of the following fractions is the largest?

A.  $\frac{2}{5}$

B.  $\frac{3}{8}$

C.  $\frac{7}{10}$

D.  $\frac{13}{16}$

Correct Answer: D

Explanation:

Find a common denominator for the fractions. In this case, 80 work for all the fractions.

Convert all the fractions:  $\frac{2}{5} = \frac{32}{80}$ ;  $\frac{3}{8} = \frac{30}{80}$ ;  $\frac{7}{10} = \frac{56}{80}$ ; and  $\frac{13}{16} = \frac{65}{80}$ .

Comparing the fractions, you can see that  $\frac{13}{16}$  ( $\frac{65}{80}$ ) is the largest fraction.

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**QUESTION 4**

Convert 314,000 to scientific notation.

A.  $3.14 \times 10^5$

B.  $3.14 \times 10^{-5}$

C.  $314 \times 10$

D.  $31.4 \times 100$

Correct Answer: A

Explanation:

To convert this number to scientific notation, move the decimal point to the left until it's to the immediate right of the first number, while counting the number of moves. In this case, you move it 5 places. The result is then multiplied by 10, raised to the power of the number of places the decimal point was moved.

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## QUESTION 5

If a circle has a radius of 18 feet, what is its circumference (to the nearest whole foot)?

- A. 36 feet
- B. 113 feet
- C. 54 feet
- D. 108 feet

Correct Answer: B

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