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ASVAB Section Six : Mathematics Knowledge

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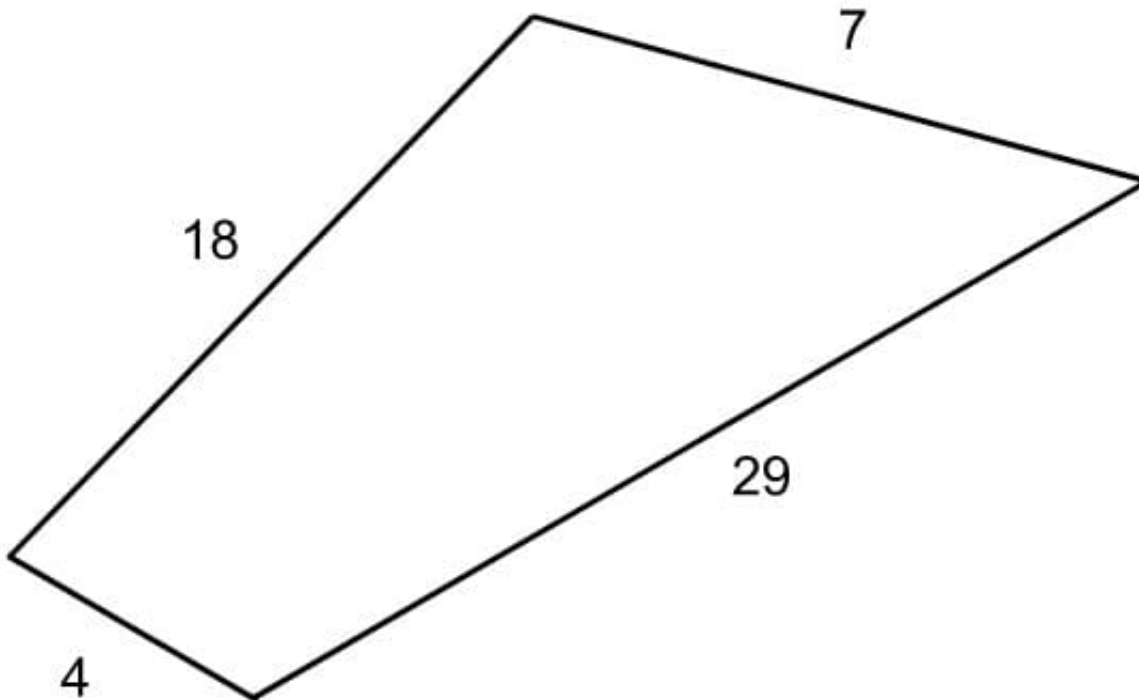
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QUESTION 1



Given the diagram, what is the perimeter of the quadrilateral?

- A. 14616
- B. 28
- C. 517
- D. 58

Correct Answer: D

QUESTION 2

Mr. Langendorfer drove his car steadily at 40 miles per hour for 120 miles. He then increased his speed and drove the next 120 miles at 60 miles per hour.

What was his average speed?

- A. 48 miles per hour
- B. 52 miles per hour
- C. 50 miles per hour



D. 46 miles per hour

Correct Answer: A

Explanation:

To find the average rate of speed (mph), divide the distance he covered by the time he spent traveling ($R = D/T$). In this example, begin by finding the distance traveled.

$120 + 120 = 240$ miles (distance)

Next find the length of time he traveled.

At the beginning of his trip, he drove 120 miles at 40 mph.

$120 / 40 = 3$ hours (first part of trip)

Later, he increased his speed.

$120 / 60 = 2$ hours (second part of trip)

Altogether, he traveled for 5 hours. Now apply the formula for finding his average rate of speed

$D/T = 240/5 = 48$ mph (rate of speed)

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

The average of 0, 54, 61, 70, and 75 is _____.

- A. 50
- B. 52
- C. 55
- D. 58

Correct Answer: B

Explanation:

Add the number and then divide by the number of terms.

$$54 + 61 + 70 + 75 = 260. 260 \div 5 = 52.$$

QUESTION 5

$4\frac{1}{2} + 12\frac{2}{5} + 33\frac{1}{10} =$ _____.

- A. $61\frac{2}{5}$
- B. $89\frac{1}{10}$
- C. $51\frac{2}{2}$
- D. $71\frac{2}{5}$

Correct Answer: B

Explanation:

Convert to the lowest common denominator (which is 10), then add.

$$4\frac{1}{2} + 12\frac{2}{5} + 33\frac{1}{10} = 4\frac{2}{10} + 14\frac{4}{10} + 33\frac{1}{10} = 89\frac{1}{10}.$$

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