



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

ASVAB Section Six : Mathematics Knowledge

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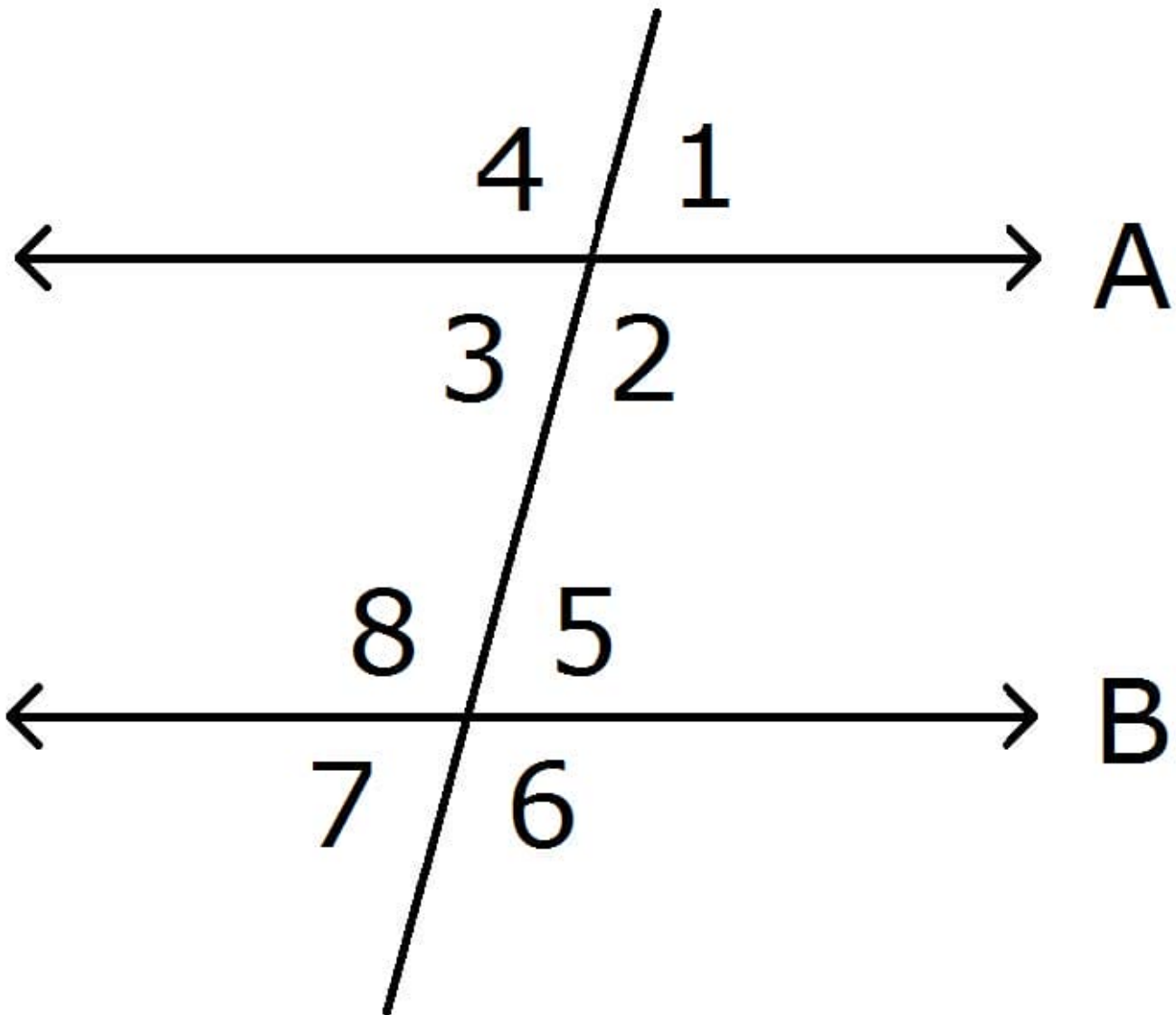
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QUESTION 1



Lines A and B are parallel.

If Angle 1 is 70 degrees, then angle 8 is \_\_\_\_\_.

- A. 70 degrees
- B. Unknown
- C. 110 degrees
- D. 140 degrees

Correct Answer: C

Explanation:



If angle 1 is 70 degrees, then Angle 4 is 110 degrees since they combine to make a straight line. Since Lines A and B are parallel, Angles 4 and 8 are the same. Therefore, Angle 8 is 110 degrees.

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**QUESTION 2**

An audience consists of M people, and  $\frac{2}{3}$  of the audience are adults. C the adults,  $\frac{1}{2}$  are males.

How many adult males are in the audience?

- A.  $\frac{1}{6} M$
- B.  $M - \frac{2}{3} - \frac{1}{2}$
- C.  $\frac{1}{3} M$
- D.  $M - \frac{1}{3}$

Correct Answer: C

Explanation:

If  $\frac{2}{3}$  of M people are adults, then  $\frac{2}{3}M$  represents the number of adults. If  $\frac{1}{2}$  of  $(\frac{2}{3}) M$  are males, then

$\frac{1}{2} \times (\frac{2}{3}) M$  represents the number of adult males.

$$\frac{1}{2} \times \frac{2}{3} M = \frac{1}{3} M$$

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**QUESTION 3**

A floor is made up of hexagonal tiles, some of which are black and some of which are white. Every black tile is completely surrounded by white tiles.

How many white tiles are there around each black tile?

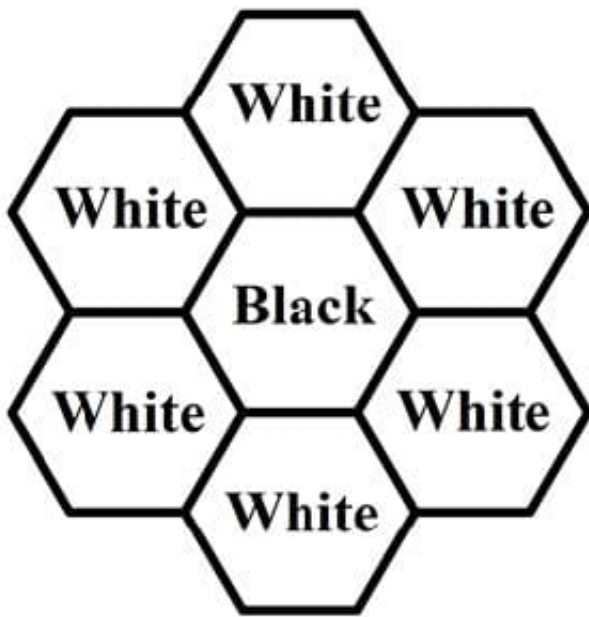
- A. four
- B. five
- C. six
- D. eight

Correct Answer: C

Explanation:

A hexagon has six sides. Each of the six sides of the black tile must touch a side of a white tile, so there

are six white tiles surrounding black tiles.

**QUESTION 4**

Solve for x:  $-x^2 - x + 30 = 0$

- A. 4, -8
- B. -6, 5
- C. -4, 5
- D. 6, -3

Correct Answer: B

Explanation: This is a quadratic equation, which is solved by factoring.  $-x^2 - x + 30 = 0$   $-(-x^2 - x + 30) = 0$   $x^2 + x - 30 = 0$   $(x+6)(x-5) = 0$   $x+6 = 0$   $x-5 = 0$   $x = -6$   $x = 5$

**QUESTION 5**

If a rectangle has a perimeter of 36 feet, and it's 4-feet wide, what's its area?

- A. 56 square feet
- B. 128 square feet
- C. 112 square feet
- D. 16 square feet

Correct Answer: A



Explanation:

To find area, multiply length times width ( $A = lw$ ).

To determine the length, subtract two times the width from the perimeter:  $36 - 2(4) = 36 - 8 = 28$ .

Then divide the remainder by 2 to determine the length of one side:  $28 \div 2 = 14$ .

Then multiply length times width to determine the area:  $14 \times 4 = 56$ .

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