

ASVAB-SECTION-6^{Q&As}

ASVAB Section Six : Mathematics Knowledge

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QUESTION 1

If $x = 3$, then $xx x x =$	
A. 27	
B. 30	
C. 3x	
D. 81	
Correct Answer: D	

QUESTION 2

If you cut the largest possible circular tabletop from a square whose sides measure two feet each, how much wood is wasted?

Use 3.14 for ?.

- A. 1 square foot
- B. 1.86 square feet
- C. 5.86 square feet
- D. 0.86 square feet

Correct Answer: D

Explanation: Step 1: Find the area of the square. 2 feet x 2 feet = 4 square feet Step 2: Find the area of the circle, using the formula A = ?r2. (The radius equals half the diameter; the diameter of this circle is 2 feet – the same length as one side of the square.) $3.14 \times r2 = 3.14 \times 12 = 3.14$ square feet Step 3: Subtract 3.14 square feet from 4 square feet to find the wood that is wasted, 0.86 square feet.

QUESTION 3

- If 5y2 = 80, y is _____.
- A. a positive number
- B. a negative number
- C. either a positive or negative number

D. an imaginary number

Correct Answer: C



Explanation:

The square root of a squared positive number can either be positive or negative.

QUESTION 4



In the given diagram, what is the area of the triangle?

A. 26

B. 51

C. 289

D. 102

Correct Answer: C

QUESTION 5





A circle passes through the four vertices of a rectangle that is 8 feet long and 6 feet wide.

How many feet are there in the radius of the circle?

A. 14

B. 21/4

C. 10

D. 5

Correct Answer: D

Explanation:

If the circle passes through all four vertices of the rectangle, its diameter will be a diagonal of the rectangle. Since a rectangle\\'s angles are right angles, the diagonal for n is a right triangle with two sides of the rectangle. Let x = the length of the diagonal. By the Pythagorean Theorem, in a right triangle the square of the length of the hypotenuse is equal to the sum of the squares of the legs.

x2 = 82 + 62

x2 = 64 + 36

x2 = 100

x2 = 100

means that x times x=100.



Therefore, x = 10 feet.

But 10 is a diameter of the circle. A radius of a circle is one-half the diameter. Hence, the radius is 5 feet.

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