ASVAB-SECTION-6^{Q&As}

ASVAB Section Six : Mathematics Knowledge

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QUESTION 1

If x = 2, then xx x xx = _____.

A. 16

B. 2xx

C. 8

D. 24

Correct Answer: A

Explanation:

Substitute 2 for all the x\\'s.

xx x xx= (2 x 2) x (2 x 2) = 4 x 4 = 16

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 x r2 = 3.14 x 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

Which of the following fractions is the largest?

A. 2?5

B. 3?8

C. 7?10

D. 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: 2?5 = 32?80; 3?8 = 30?80; 7?10 = 56?80; and 13?16 = 65?80.

Comparing the fractions, you can see that 13?16 (65?80) is the largest fraction.

QUESTION 4

If -7x = 49, then x = _____.

A. 7

B. 0

C. -7

D. 14

Correct Answer: C

QUESTION 5

2 feet 4 inches + 4 feet 8 inches = _____.

A. 6 feet 8 inches

B. 7 feet

C. 7 feet 2 inches

D. 8 feet

Correct Answer: B

Explanation:

2 feet + 4 feet = 6 feet, and 4 inches plus 8 inches = 12 inches (the equivalent to 1 foot)

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