Vendor:ASVAB

Exam Code:ASVAB-SECTION-6

Exam Name:ASVAB Section Six : Mathematics Knowledge

Version: Demo

QUESTION 1

The average of 80, 46, 32, and 22 is _____.

A. 48

B. 42

C. 36

D. 45

Correct Answer: D

QUESTION 2

A square box has 10-inch sides. What is its volume?

A. 1,000 cubic inches

B. 10 cubic inches

C. 100 cubic inches

D. 10,000 cubic inches

Correct Answer: A

QUESTION 3

Solve for x: $6(x + 5) + 8 = 2$

A. 6

B. 36

C. -6

D. -2

Correct Answer: C

QUESTION 4

?49 x ?64 = _____.

A. 56

B. 15

C. 42

D. 3,136

Correct Answer: A

Explanation:

The square root of 49 is 7; the square root of 64 is 8.

7 x 8 = 56.

QUESTION 5

61/3 + 53/10 = _____.

A. 114/13

B. 113/10

C. 1119/30

D. 111/3

Correct Answer: C

Explanation:

You must convert both fractions to thirtieths before adding. Thus, with the fractions converted the numbers

are 610/30 + 59/30 = 1119/30.

QUESTION 6

If b - 3 = 7, then b is equal to _____.

A. 10

B. 4

C. 21

D. 8

Correct Answer: A

Explanation: This equation means "some number, decreased by 3, is equal to 7." b - 3 = 7 To arrive at a true statement

for b, we want to eliminate - 3 on the left side of the equation. We do this by adding 3 to both sides of the equation, undoing the subtraction on the left side. When we add 3 to both sides, we are keeping the statement an equation. (b - 3) + 3 = 7 + 3 By simplifying both sides, we isolate b and thus find the solution. b = 10

QUESTION 7

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 8

What number multiplied by 2/3 will give a product of 1?

A. -2/3

B. -3/2

C. 3/2

D. 4/6

Correct Answer: C

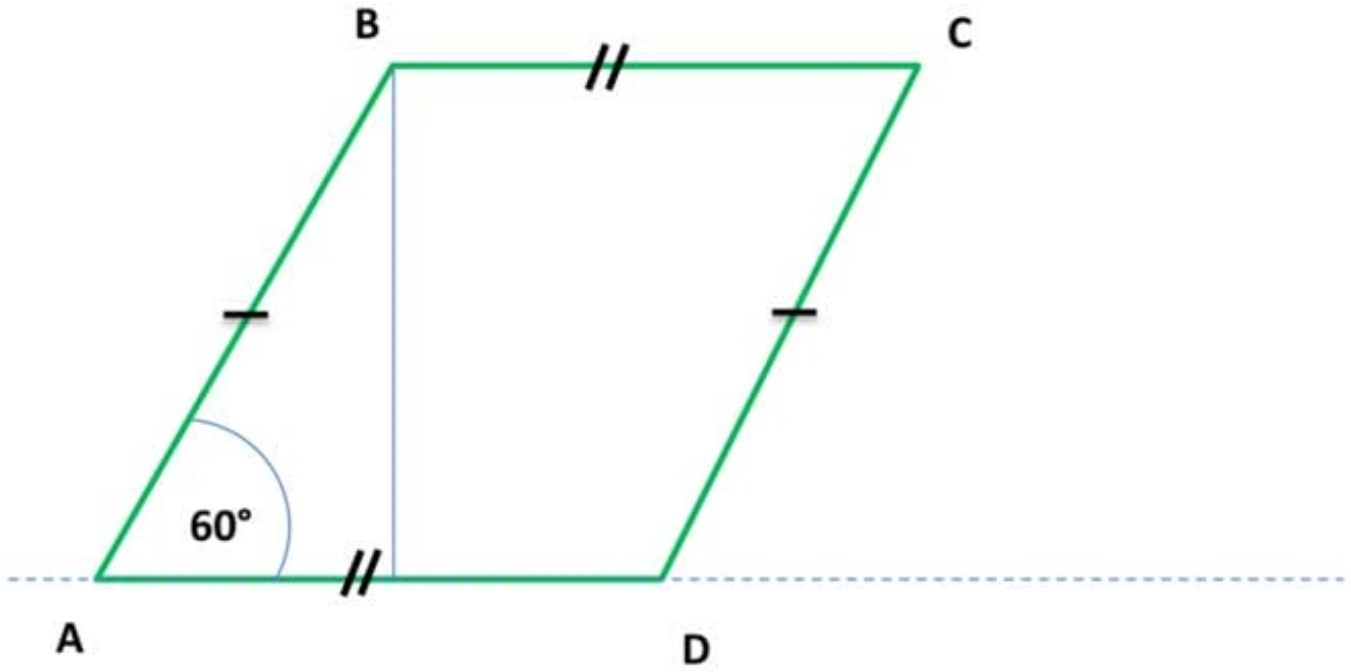
Explanation:

If a number is multiplied by its reciprocal (also called its multiplicative inverse), the product is 1. The

reciprocal of a traction is found by inverting the fraction.

The reciprocal of 2/3 is 3/2, that is, 2/3 x 3/2 = 1

QUESTION 9



Given the diagram of parallelogram ABCD and the measure of A, what is the measurement of angle of C?

A. 120°

B. 90°

C. 60°

D. 240°

Correct Answer: C

QUESTION 10

The cube of 8 is _____.

A. 24

B. 64

C. 512

D. 80

Correct Answer: C

QUESTION 11

A square box has 6-inch sides.

What\\'s its volume?

A. 18 cubic inches

B. 216 cubic inches

C. 12 cubic inches

D. 36 cubic inches

Correct Answer: B

Explanation:

Volume equals length x width x height (V =lwh): 6 x 6 x 6 = 216 cubic inches.

QUESTION 12

If x = 4, then x4 ÷ x = _____.

A. 12

B. 36

C. 64

D. 72

Correct Answer: C

Explanation:

Substitute 4 for all x\\'s in the problem.

44 ÷ 4 = (4 x 4 x 4 x 4) ÷ 4 = 256 ÷ 4 = 64.