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Which expression is represented by the diagram below?
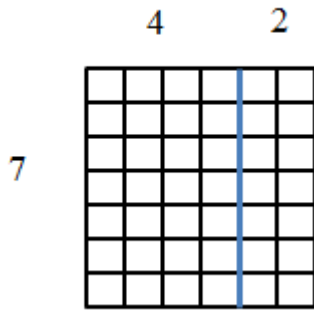
A. 7+ (4+2)
B. 7 × (4 × 2)
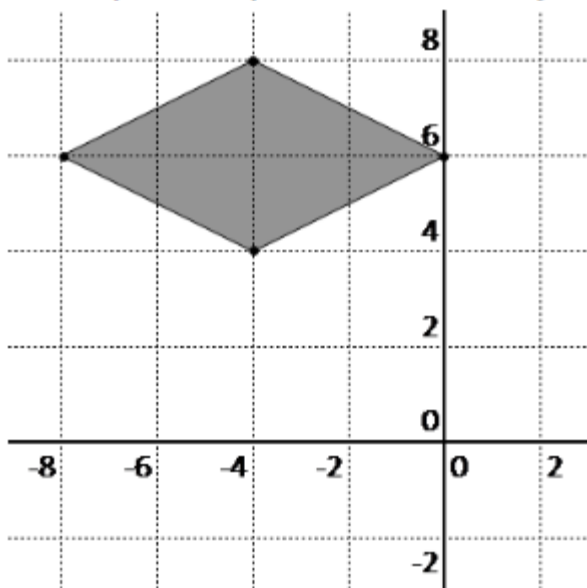C. 7+ (4x2)
D. 7x (4+2)

Answer: D

Explanation:
The rectangular array represents the product of the side lengths of 7 and (4+2).

Question: 2

Which of the following pairs of equations represents the lines of symmetry in the figure below?

A. x=-4, y 6
B. x 4, y=6
C. y=-4, x=6
D. y=4, x=-6

Answer: A

Explanation:
The vertical line of symmetry is represented by an equation of the form = a. The horizontal line of symmetry is represented by an equation of the form y = a. One line of symmetry occurs at x = -4. The other line of symmetry occurs at y = 6.

Question: 3

Which of the following statements is true?

A. A number is divisible by 6 if the number is divisible by both 2 and 3.
B. A number is divisible by 4 if the sum of all the digits is divisible by 8.
C. A number is divisible by 3 if the last digit is divisible by 3.
D. A number is divisible by 7 if the sum of the last two digits is divisible by 7.

Answer: A

Explanation:
If a number is divisible by 2 and 3, it is also divisible by the lowest common multiple of these two factors. The lowest common multiple of 2 and 3 is their product, 6.

Question: 4

Which of the following describes a sampling technique that will likely increase the sampling error?

A. choosing every 5th person from a list
B. grouping a sample according to gender and then choosing every 10th person from a list
C. using an intact group
D. assigning numbers to a sample and then using a random number generator to choose numbers

Answer: C

Explanation:
Use of an intact group is called a convenience sample. Such a sample increases sampling error, since randomization was not employed. The other described techniques utilize random sampling.

Question: 5

What is the area under the normal curve between ±2 standard deviations?

A. approximately 68%
B. approximately 90%
C. approximately 95%
D. approximately 99%

Answer: C

Explanation:
A z-score of 2 has a mean to z area of 0.4772, or 47.72%. Twice this percentage is about 95%.

Question: 6

Robert buys a car for $24,210. The price of the car has been marked down by 10%. What was the original price of the car?
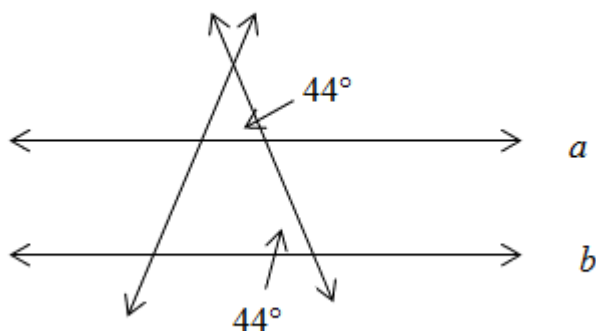
A. $25,900
B. $26,300
C. $26,900
D. $27,300

Answer: C

Explanation:
The original price may be represented by the equation 24, 210 = both sides of the equation by 0.9 gives x = 26,900. -0.10 or 24, 210 = 0.9. Dividing

Question: 7

Given the diagram below, which of the following theorems may be used to verify that lines a and b are

A. Alternate Interior Angles Converse Theorem
B. Alternate Exterior Angles Converse Theorem
C. Consecutive Interior Angles Converse Theorem
D. Corresponding Angles Converse Theorem

Answer: D

Explanation:
The corresponding angles have congruent angle measures, each measuring 44°. According to the Corresponding Angles Converse Theorem, two lines are parallel if a transversal, intersecting the lines, forms congruent corresponding angles.

Question: 8

Which of the following correctly compares the sets of rational and irrational numbers?

A. The set of rational numbers is a subset of the set of irrational numbers.
B. The set of irrational numbers is a subset of the set of rational numbers.
C. The sets of irrational and rational numbers are disjoint.
D. The sets of irrational and rational numbers are equal.

Answer: C

Explanation:
The set of irrational numbers is separate from the set of rational numbers. A rational number cannot be irrational, and an irrational number cannot be rational.

Question: 9

Which of the following illustrates the multiplicative inverse property?

A. The product of a and 1 is a.
B. The product of and a is 1.
C. The variable a, raised to the negative 1 power, is equal to the ratio of 1 to a.
D. The product of a and -a is -a².

Answer: B

Explanation:
The multiplicative inverse property states that the product of a number and its reciprocal is 1.
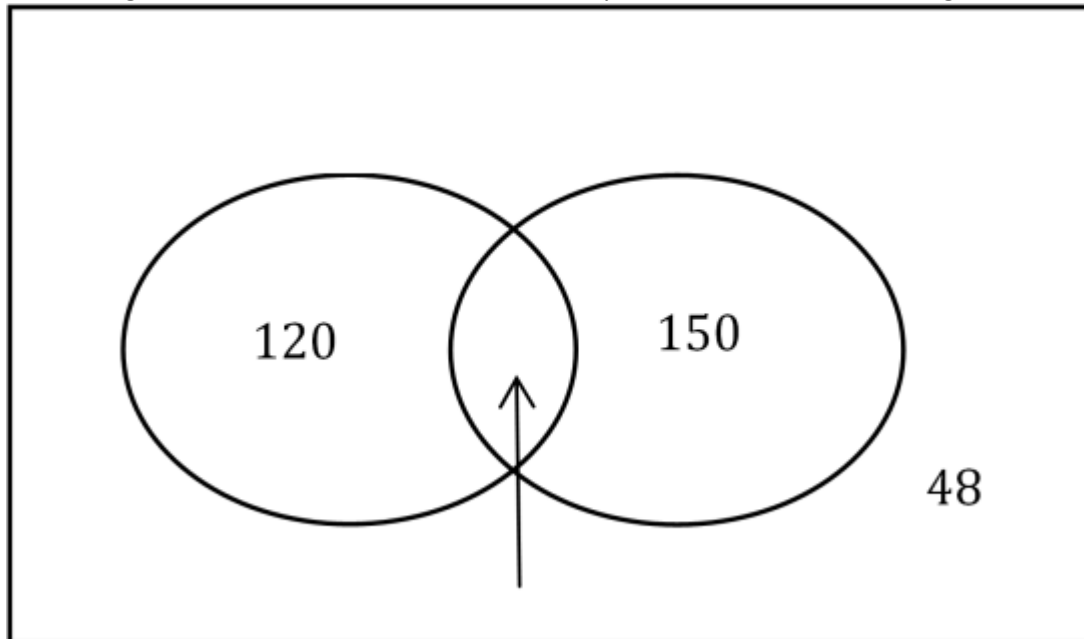
Question: 10

320 students are surveyed. 120 of the students like only Dallas. 150 of the students like only Houston. 48 of the students like neither city. How many students like Dallas and Houston?

A. 2
B. 3
C. 4
D. 5

Answer: A

Explanation:
A Venn diagram, such as the one shown below, may be drawn to assist in finding the answer.

Since the set contains 320 total people, the solution is equal to 320 (120 + 150+48) or 2 people.

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