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College-Mathematics
CLEP College Mathematics

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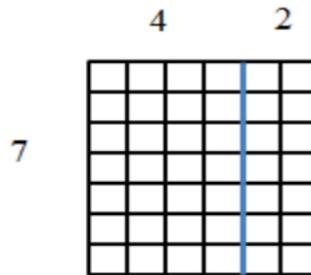


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Question: 1

Which expression is represented by the diagram below?



- a. $7 + (4 + 2)$
- b. $7 \times (4 \times 2)$
- c. $7 + (4 \times 2)$
- d. $7 \times (4 + 2)$

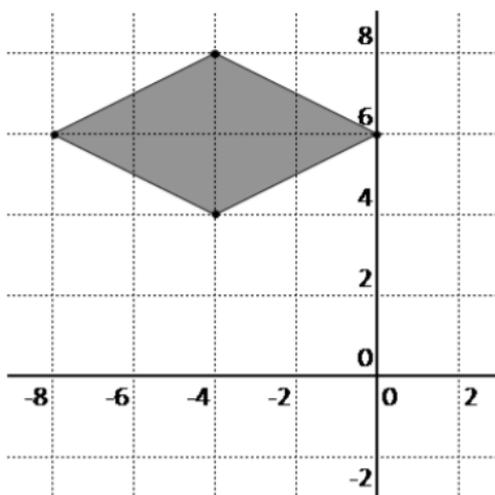
Answer: D

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 $x =$

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 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 $24,210 = x - 0.10x$ or $24,210 = 0.9x$.

Dividing both sides of the equation by 0.9 gives $x = 26,900$.

Question: 7

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



- 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.

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