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## Questions & Answers PDF

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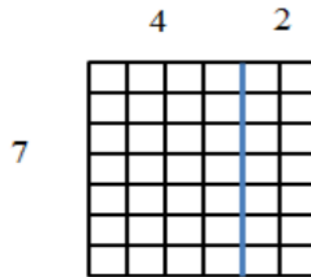
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## Question: 1

Which expression is represented by the diagram below?



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

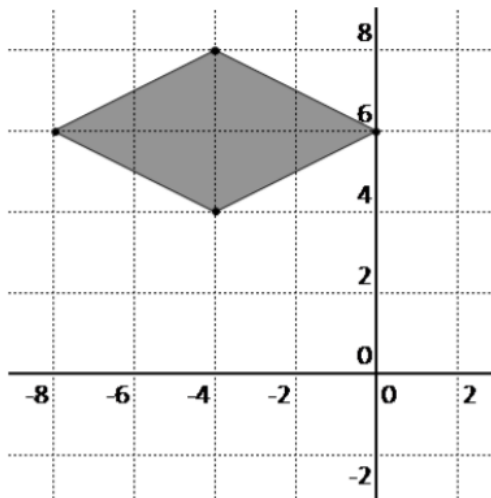
**Answer: D**

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  $\pm 2$  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**

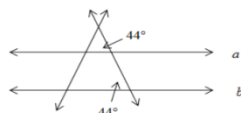
Explanation:

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**

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Explanation:

The corresponding angles have congruent angle measures, each measuring 440. 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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