

College Admission

*Pre-Algebra
Pre Algebra Certification Exam*

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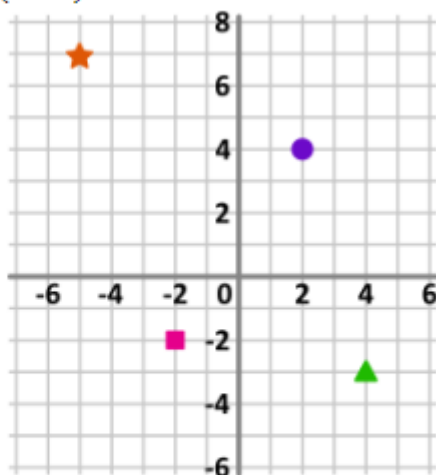


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Question: 1

Which point is located at $(4, -3)$?



- a. Triangle
- b. Star
- c. Circle
- d. Square

Answer: A

Explanation:

The ordered pair $(4, -3)$ consists of an x -value (4) and a y -value (-3) . The x -value of 4 indicates 4 movements in the positive direction horizontally (to the right). The y -value of -3 indicates three movements in the negative direction vertically (down). When the vertical and horizontal movements have taken place (starting from the origin), the result will be the ordered pair $(4, -3)$.

Question: 2

Justin owns a party planning business. Today he is in charge of delivering 84 balloons to someone's 84th birthday party. When Justin arrives, he notices that there are 6 tables. He wants to place the same number of balloons at each table. Will this be possible? Explain your reasoning.

- a. This will not be possible. 84 is not divisible by 6, because 84 is divisible by 2 but not 3.
- b. This will be possible. 84 is divisible by 6, because 84 is divisible by 2 and 3.

Answer: B

Explanation:

84 balloons can be equally separated into 6 groups (6 tables). 84 is divisible by 6. A quick check for divisibility by 6 is to see if the number is divisible by both 2 and 3. If the number is divisible by 2 and 3, then it is also divisible by 6. $84 \div 2 = 42$ and $84 \div 3 = 28$ ($84 \div 6 = 14$ balloons at each table).

Question: 3

At noon on Sunday the temperature was 68 degrees Fahrenheit. By 7pm, the temperature dropped by 13 degrees Fahrenheit. By 8am the next morning the temperature increased by 6 degrees Fahrenheit. What is the temperature, in degrees Fahrenheit, at 8am Monday?

- a. 49 °F
- b. 61 °F
- c. 75 °F
- d. 87 °F

Answer: B

Explanation:

Temperature drop is represented by a negative number, and temperature increase is represented by a positive number. The expression that would represent this situation is $68 + (-13) + 6$. First, add 68 and -13 by finding the difference between the absolute values of the two numbers and taking the sign of the larger number. $68 - 13 = 55$ and 68 is positive, so the answer stays positive as well. Then, add $55 + 6$, which is equal to 61.

Question: 4

$(-589) - 800 - (-246) =$

- a. -1,143
- b. -457
- c. 35
- d. 457

Answer: A

Explanation:

To find the value of the expression, we start by adding and subtracting from left to right $-589 - 800 = -1,389$. Then we evaluate the expression $-1,389 - (-246)$, which can be rewritten as $-1,389 + 246$. This is equal to $-1,143$.

Question: 5

$99 \div (-11)(-6) =$

- a. -54
- b. -15
- c. 15
- d. 54

Answer: D

Explanation:

The value of the expression can be calculated by multiplying and dividing from left to right. We start by evaluating $99 \div (-11)$ by dividing the absolute value of the two numbers, which is $99 \div 11 = 9$. Since the two numbers have opposite signs, the answer is -9 . Now we evaluate $(-9)(-6)$. First, we will multiply 9 by 6, which is 54. The sign stays positive because a negative number times a negative number is a positive number. Therefore, $99 \div (-11)(-6) = 54$.

Question: 6

Write $-6\frac{2}{11}$ as an improper fraction.

- a. $-\frac{34}{11}$
- b. $-\frac{62}{11}$
- c. $-\frac{11}{19}$
- d. $-\frac{68}{11}$

Answer: D

Explanation:

Write the absolute value of $-6\frac{2}{11}$ as an improper fraction and put a negative sign in front of the answer. The absolute value of $-6\frac{2}{11}$ is $6\frac{2}{11}$.

$$\left| -6\frac{2}{11} \right| = 6\frac{2}{11}$$

Start by multiplying the denominator, 11, by the whole number, 6. $11 \times 6 = 66$. Next, add the original numerator, 2, to the product, 66. $66 + 2 = 68$. Write 68 as the numerator of the improper fraction.

$$6\frac{2}{11} = \frac{68}{11}$$

Since the denominator does not change, write 11 as the denominator of the improper fraction.

$$6\frac{2}{11} = \frac{68}{11}$$

Remember that since the mixed number is negative, the improper fraction must also be negative. $-6\frac{2}{11} = -\frac{68}{11}$. Therefore, the correct answer is D.

$$-6\frac{2}{11} = -\frac{68}{11}$$

Question: 7

Determine if the table represents a function.

| x | y |
|----|----|
| 33 | 10 |
| 35 | 8 |
| 33 | 18 |

- a. The table represents a function.
- b. The table does not represent a function.
- c. The table is neither a function nor a relation.

Answer: B

Explanation:

The table does not represent a function. Functions are a subgroup of relations. Not all relations are functions. In this case, the table does not represent a function because there is not exactly one y-value (output) for each x-value (input). There are two x—values of 33 with different y—values. This means that the relation is not a function.

Question: 8

What is the GCF of 10, 8, and 3?

- a. 2
- b. 1
- c. 3
- d. 0

| |
|------------------|
| Answer: B |
|------------------|

Explanation:

When the numbers are small, like 10, 8, and 3, the GCF can be determined by simply listing the factors.

Factors of 10: 1, 2, 5, 10

Factors of 8: 1, 2, 4, 8

Factors of 3: 1, 3

The greatest factor that appears in all three lists is 1. Therefore, 1 is the GCF of 10, 8, and 3.

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