

# College Admission Pre-Algebra

## Pre Algebra Certification Exam

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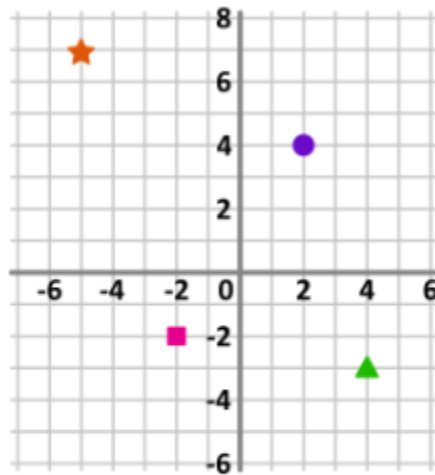
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## Question: 1

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  $84 \div 3 = 28$  ( $84 \div 6 = 18$  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.  $-\frac{19}{11}$
- 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

|                  |
|------------------|
| <b>Answer: B</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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