

Early Foundations of Pre-Calculus

Mathematics · Answer Key · 8 Questions

1. In mathematics, what is special about a function rule?

- A) Every input gives exactly one output**
- B) It always doubles the input
- C) One input can give three different outputs
- D) It only works with negative numbers

2. On a standard 2D grid, what are the coordinates of the origin where the two lines cross?

- A) (1, 1)
- B) (0, 0)**
- C) (10, 10)
- D) (0, 1)

3. On a standard horizontal number line, what happens to numbers as you move to the right?

- A) They become smaller
- B) They stay the same
- C) They become larger**
- D) They turn into zeros

4. What is the straight distance from the exact center of a circle to its outer edge called?

- A) Diameter
- B) Perimeter
- C) Radius**
- D) Angle

5. What does a line of symmetry do to a shape?

- A) It divides the shape into two matching mirror halves**
- B) It adds extra corners to the shape
- C) It doubles the total area
- D) It changes the shape into a triangle

6. In graphing, what is the steepness or slope of a completely flat, horizontal line?

- A) One
- B) Zero**
- C) Ten
- D) Infinite

7. How many degrees are in a right angle, which forms a square corner?

- A) 45 degrees
- B) 180 degrees
- C) 360 degrees

D) 90 degrees

8. In the number sequence 3, 6, 9, 12, what rule is used to find the next number?

A) Add 3

- B) Subtract 3
- C) Multiply by 3
- D) Add 6