PEP Grade 8 Math — Unit 13: Axial Symmetry • Unit Test (Basic)

PEP · Grade 8 · Term 1 · Mathematics · Unit Test · Basic

AI-generated practice paper · original study aid, not an official examination paper · 40 questions · 100 points

Name: _____ Date: _____ Score: _____

Answer all questions. This paper is worth 100 points. Show your working where appropriate.

I. Multiple Choice

1. Which of the following shapes has exactly one line of symmetry?
   A. Rectangle
   B. Equilateral triangle
   C. Isosceles triangle
   D. Square

2. In a figure with axis symmetry, if point A is located 4 units to the right of the axis, where is its symmetric point A' located?
   A. 4 units to the left of the axis
   B. 4 units to the right of the axis
   C. 8 units to the left of the axis
   D. At the same position as A

3. How many lines of symmetry does a regular pentagon have?
   A. 3
   B. 4
   C. 5
   D. 6

4. Which transformation preserves axis symmetry?
   A. Translation
   B. Rotation by 90°
   C. Reflection
   D. Dilation

5. If a figure is symmetric about the y-axis, which of the following points must have a corresponding point with the same y-coordinate but opposite x-coordinate?
   A. (3, -2)
   B. (-5, 7)
   C. (0, 4)
   D. (-1, -1)

6. Which of the following letters has no line of symmetry?
   A. H
   B. O
   C. F
   D. X

7. A figure has two lines of symmetry that intersect at right angles. What could this figure be?
   A. Circle
   B. Parallelogram
   C. Rhombus
   D. Regular hexagon

8. When folding a paper along a line, if both sides match perfectly, what does this indicate?
   A. The line is a diagonal
   B. The figure is rotated
   C. The line is a line of symmetry
   D. The figure is scaled

9. Which shape has rotational symmetry but not reflectional symmetry?
   A. Equilateral triangle
   B. Scalene triangle