PEP Grade 7 Math — Unit 1: Intersecting and Parallel Lines • Unit Test (Basic)

PEP · Grade 7 · Term 2 · 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 best describes two lines that never meet, no matter how far they are extended?
   A. Perpendicular lines
   B. Parallel lines
   C. Intersecting lines
   D. Skew lines

2. If two parallel lines are cut by a transversal, which pair of angles are always equal?
   A. Consecutive interior angles
   B. Alternate interior angles
   C. Adjacent angles
   D. Supplementary angles

3. What is the measure of an angle that forms a linear pair with a 125° angle?
   A. 55°
   B. 65°
   C. 125°
   D. 180°

4. When two lines intersect, what do we call the angles that are opposite each other?
   A. Supplementary angles
   B. Complementary angles
   C. Vertical angles
   D. Corresponding angles

5. Which statement is true about corresponding angles when two parallel lines are cut by a transversal?
   A. They are always supplementary
   B. They are always adjacent
   C. They are always equal
   D. They are never congruent

6. If $\angle 1$ and $\angle 2$ are alternate interior angles and $\angle 1 = 70°$, what is $\angle 2$?
   A. 70°
   B. 110°
   C. 90°
   D. 180°

7. When two parallel lines are intersected by a transversal, which pair of angles occupies the same relative position on each line and are located on opposite sides of the transversal?
   A. Alternate interior angles
   B. Corresponding angles
   C. Adjacent angles
   D. Supplementary angles

8. Which of the following is a necessary condition for two lines to be parallel when cut by a transversal?
   A. The consecutive interior angles are equal
   B. The alternate exterior angles are supplementary
   C. The corresponding angles are equal
   D. The vertical angles are supplementary