# PEP Grade 4 Math — Unit 7: Motion of Shapes (2) • Unit Test (Basic)

PEP · Grade 4 · 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 shows a shape after a translation? The shape moves 3 units right and 2 units down.
   A. The shape stays in the same position.
   B. The shape is flipped over a vertical line.
   C. The shape appears 3 units to the right and 2 units below its original position.
   D. The shape rotates 90 degrees clockwise.

2. What happens to a triangle when it is reflected over a horizontal line?
   A. It becomes smaller.
   B. It flips upside down.
   C. It rotates 180 degrees.
   D. It moves diagonally.

3. Which transformation turns a square so that one corner points up and another points down?
   A. Translation
   B. Rotation
   C. Reflection
   D. Stretching

4. If a rectangle is rotated 180 degrees around its centre, how does it look?
   A. It looks exactly the same.
   B. It is now upside down.
   C. It has changed size.
   D. It is longer horizontally.

5. Which shape will look identical after a 90-degree clockwise rotation?
   A. A rectangle with different side lengths.
   B. An equilateral triangle.
   C. A square.
   D. A scalene triangle.

6. When a shape is reflected across a vertical line, what changes?
   A. Its size.
   B. Its position left-right.
   C. Its height.
   D. Its colour.

7. Which of these transformations can change the direction a shape faces?
   A. Translation
   B. Reflection
   C. Both A and B
   D. Neither A nor B

8. If a heart shape is translated 5 units to the left, where is it now?
   A. It is above the original.
   B. It is below the original.
   C. It is 5 units to the left of the original.
   D. It is rotated 180 degrees.