Year 8 Bearings and Transformations – Foundation

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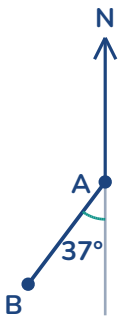
Year 8 · Maths · Bearings, Coordinates and Transformations · Level 1 Foundation · 10 questions

Name _____ **Date** _____

A. Bearing and coordinate skills

1. The diagram shows the angle between due south and the line AB. B is to the west of the south line. Find the bearing of B from A.



Answer _____

2. The diagram shows the angle between due south and the line AB. B is to the east of the south line. Find the bearing of B from A.



Answer _____

3. The bearing of B from A is 080°. Find the bearing of A from B.

Answer _____

4. The bearing of B from A is 050°. Find the bearing of A from B.

Answer _____

5. Find the midpoint of the line segment from (7, 0) to (−2, 3).

Answer _____

6. Find the midpoint of the line segment from (−3, 1) to (6, 6).

Answer _____

7. Find the midpoint of the line segment from (−5, 1) to (5, −4).

Answer _____

8. A translation maps P (−4, 1) to P' (−10, −2). Write the translation vector.

Answer _____

9. Point P (−2, 0) is translated by the vector (−5, −3) (written as a column vector in your book). Write the coordinates of its image P'.

Answer _____

10. Point P (−6, −2) is translated by the vector (−4, 3) (written as a column vector in your book). Write the coordinates of its image P'.

Answer _____