Stage 5 Mathematics student work sample – Grade D

Midpoint  Description of Activity

If the midpoint of an interval is (1,3), what might the endpoints of the interval be? Students give reasons for their solution

- Draws a diagram to assist in solving the problem
- Indicates the endpoints of some intervals that have the point (1, 3) as the midpoint
- Recognises that there is more than one solution but does not state any pairs of endpoints that solve the problem

Grade Commentary

Chandra demonstrates limited understanding of the concept of midpoint on the Cartesian plane. Some intervals with the given midpoint have been indicated on a diagram and there is recognition that there is more than one solution. The identification of particular pairs of endpoints for horizontal, vertical and oblique intervals, and a description of how to generate endpoints from the given midpoint would enhance the response.

Chandra’s response demonstrates characteristics of work typically produced by a student performing at a grade D standard.