27 A ship sailed 15 km from port *A* on a bearing of 200° to reach port *B*.
On leaving port *B*, the ship sailed 30 km on a bearing of 110° to reach port *C*.

(a) Calculate the direct distance, in km to one decimal place, between port *A* and port *C*.

.... km

(3)

P 5 3 3 0 5 A 0 1 8 2 0

(b) Calculate the bearing, in degrees to the nearest degree, of port *A* from port *C*.

....°

(4)

(Total for Question 27 is 7 marks)

TOTAL FOR PAPER IS 100 MARKS