Bearings and Scale Diagrams

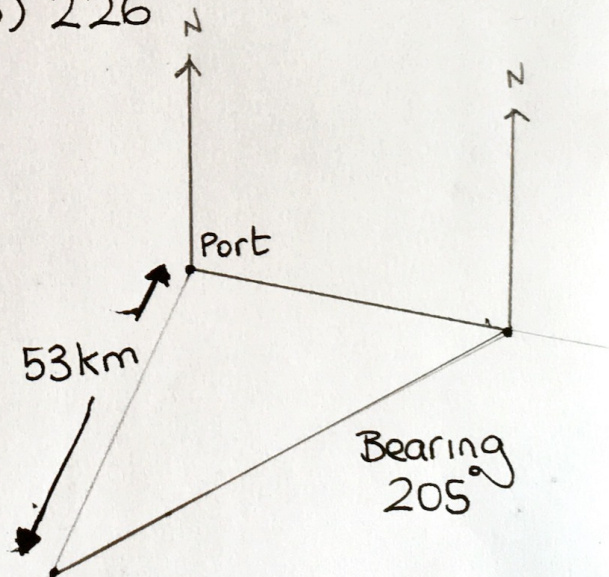Using a scale of 1 cm to 2 km, find the distance and bearings of the following:
(a) Rochdale from Bury
(b) Prestwich from Bury
(c) Edenfield from Bury
(d) Bolton from Bury
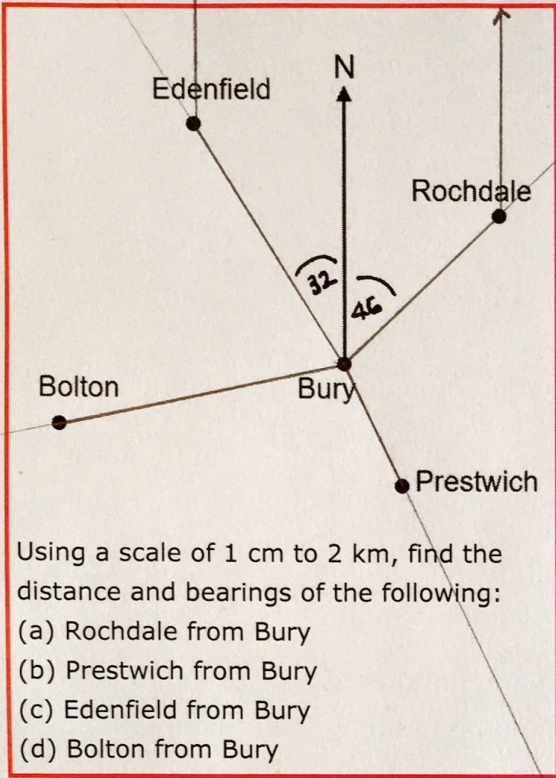
(a) 046° , 6.6 km
(b) 153° , 4.2 km.
(c) 328° , 8.8 km
(d) 258° , 9 km .

Using the same scale diagram, find the bearing of:
(a) Bury from Edenfield
(b) Bury from Rochdale

(a) 148°
(b) 226°

A ship sails from a port on a bearing of 100° for 50 km. It then turns and sails on a bearing of 240° for 80 km. Using a scale of 1 cm to 10 km, draw a scale diagram. Find the distance of the ship from the port, and the bearing it must head on to return to the port.

53 km

Bearing 205°

(a) The bearing of B from A is 110°. Find the bearing of A from B.
(b) The bearing of B from A is $x°$. Find the bearing of A from B.

(a) 290°
(b) If $x < 180°$, $180 + x$
    If $x > 180°$, $x - 180$