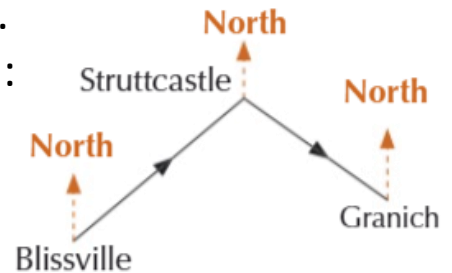Name - _ _ _ _ _ _ _ _   Start time - _ _ : _ _   End time - _ _ : _ _

Solve the following:

1. A pilot flies from Blissville to Struttcastle, then on to Granich. This journey is shown by the scale diagram on the right, which is drawn using a scale of 1 cm: 100 km.
   a) Find the distance and bearings from:
   (i) Blissville to Struttcastle
   (ii) Struttcastle to Granich
   b) The pilot returns directly from Granich to Blissville. Find the actual distance travelled in this stage.

   North
   Struttcastle
   North
   North
   Granich
   Blissville

2. Paul's house is 150 km from Tirana on a bearing of 048°. Draw an accurate scale diagram of Paul's house and Tirana using the scale 1 cm: 30 km.

3. Paradise City lies 540 km from Pretty Grimville on a bearing of 125°. Draw an accurate scale diagram of the two locations using the scale 1 cm:90 km.

4. A pilot flies 2000 km from Budarid to Madpest on a bearing of 242°. Draw an accurate scale diagram of the journey using the scale 1:100 000 000.

5. Use the scale 1: 22 000 000 to draw an accurate scale diagram of an 880 km journey from Budarid to Blissville on a bearing of 263°.

6. The scale drawing on the right shows three cities, P, Q and R. The scale of the diagram is 1:10 000 000.
   a) Use the diagram to find the following actual distances in km.
   (i) PQ   (ii) QR   (iii) PR

1   2   3   4   5   6   7   8   9