

Scale

References: *Geographical Essentials*, pp. 56-57, 59
The Canadian Oxford School Atlas. (7th edition)

It is important that you know the following terms:

Statement Scale (also known as verbal scale or written scale)
Line Scale (also known as linear scale)
Representative Fraction (often abbreviated to RF)

Memorize these. Know where to find them and how to use them when you are reading a map or globe.

***Helpful hint:

To convert a RF to statement scale - which is easier to understand - just move the decimal space 5 places to the left. This converts cm to km.

eg. an RF of 1:19 000 000 converts to 1cm = 190 km.

You may answer the following in the space below each of the questions except where directed to do otherwise.

1. In your notebook, do activity 30 #1-5, p. 58 from *Geographical Essentials*.

Read p. 59 of Geographical Essentials before answering the following:

2. How does the amount of detail change as you move from a small scale map to a large scale map?

3. Which of the three scales is most common in your atlas?

4. Find two large scale maps in your atlas. Write down the page numbers for them and indicate what each of these maps show.

Turn to the map of Africa on pages 102-103 of your atlas.

5. What is the RF of this map?
6. There are also two inset maps on p. 103. What is the RF the inset map of part of Egypt?
7. Calculate the area shown on the inset map of part of Egypt. (area = length x width)
8. On the main map, find Alger (Algiers), Algeria ($36^{\circ} 50' N$, $3^{\circ} 00' E$) and Khartoum, Sudan ($15^{\circ} 33' N$, $32^{\circ} 35' W$). How far apart are they?

Turn to the map of South America on pp. 70-71 of the atlas to answer the following questions:

9. What is the RF of the main map?
10. What is the RF of the inset map of Rio de Janeiro?
11. From the inset map, calculate the distance across the Rio-Neteroi Bridge from the mainland of Niteroi Centro to the mainland at Caju, Rio de Janeiro.
12. On the main map, calculate the straight-line distance between Bogota, Columbia ($4^{\circ} 38' N$, $74^{\circ} 05' W$) and Rio de Janeiro, Brazil ($22^{\circ} 53' S$, $43^{\circ} 17' W$).
13. In your notebook, do activity 33, #1-3, p. 62 in *Geographical Essentials*.

Look at several atlas maps to answer the following:

14. What kinds of information might be shown on a map with a representative fraction of 1: 40 000 000 (1 to 40 million)?
15. What kinds of information might be shown on a map with a representative fraction of 1:300 000?