

Name: _____

Activity 4.1 UP – How far is that?



1. Look at the list below and write down your estimate of the length or width of the item. Once you have done this, work with a partner to measure and record the actual length or width of each item.

Estimating



Item	Estimate	Actual measurement
Length of your biro		
Length of the classroom		
Height of the door		
Length of your table		
Length of your leg (hip to heel)		
Height of the room		
Height of your partner		
Width of the room		
Length of the hall/corridor		
Length of the oval		
Length of the basketball court		
Width of your ruler		
Length of the teacher's desk		
Width of your thumbnail		
Width of the oval		
Length of your smallest finger		

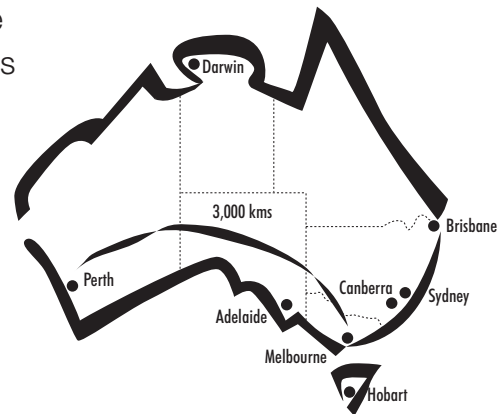
Activity 4.1 UP – How far is that? (continued)



2. How far are other places from your capital city?

Look at the map of Australia on the right. Note that it is about 3,000kms from Melbourne to Perth.

Estimate the distances to other capital cities of Australia using your capital city as your starting point. When you have done this look at an atlas to find out the actual distances.



3. Work out two different routes from the door of the classroom to the flagpole.

First estimate, then answer these questions:

- Which route would be shorter?
- How long would it be in metres?
- What would be the difference in length between the two routes?

Use a trundle wheel to measure the distances.



4. Distances and times

Try these activities:

- If a person can run 100m in 10 seconds, how long would it take to run 10m? Go outside and see how long it takes you to run 10m. Once you have worked this out, how long should it take you to run 100m? Measure out 100m and test how long it does take. Did it take longer than you thought? Why?
- Could we fit in a 400m race on our school oval? First do an estimation and then measure it. What about a 200m track?
- With a partner marking the spot, throw a tennis ball as far as you can. Measure the distance. See if your partner can throw further. Do the same with a bean bag or some other weighted item. Make sure you measure accurately, that is, in metres and centimetres. Why is it very important to measure accurately with athletic events?