Problem Set 1.1
Vectors

Add the following vectors by drawing them and drawing the resultant. In each case, show **two** different ways that the vectors can be added.

5 m/s left + 7 m/s up

20 m/s^2 south + 10 m/s^2 east

4 N up + 3 N down + 3 N left + 1 N right

A child starts at the dot below, crawls 4 m East, then 4 m South, then 1m West, then 8 m North, then 7 m West.

a) Below, draw the child's *displacement* for each portion of his/her journey.
b) Draw the child's *total displacement* (the resultant) for the whole journey.
c) Calculate the *distance* the child traveled.