Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Physics 11

**Worksheet 2.1**

**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/s2 south + 10 m/s2 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.

1. Below, draw the child’s ***displacement*** for each portion of his/her journey.
2. Draw the child’s ***total displacement*** (the resultant) for the whole journey.
3. Calculate the ***distance*** the child traveled.

**N**

**W**

**E**

**S**

