Lesson 1.1 – Vectors and Scalars

- Scalars are quantities that have only _____ (and units).

  They are represented by _____.

    ▪ E.g.

- Vectors are quantities that have both _____ and

  _____ (and units).

  They are represented by a _____ and a _____,

  or by an _____.

    ▪ E.g.

Adding Numbers:

- Adding numbers is easy. The basic rules are:

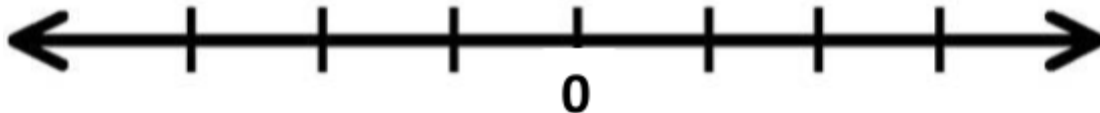   ▪ We can put them in any _____.

    ▪ Each time we add a new number, we

      _____.

    ▪ The answer (_____) is counted from _____.

        ▪ E.g. 3 + (-2) + 1   vs.   1 + (-2) + 3

Adding Vectors:

- We use the same three rules for adding vectors:

  ▪ We can put them in any _____.

  ▪ Each time we add a new vector, we

  _____.

  ▪ The answer (_____) goes from _____.

    ▪ 5 m/s right + 3 m/s up + 4 m/s down

Distance vs. Displacement:

	Vector or Scalar?	Description
Distance		How far something traveled ***along the path it took.***
Displacement		● Change in position. ● Straight arrow from start to finish.