

Chapter 14: Vectors

Vectors & Scalars:

↳ the effect of the wind on the aeroplane is determined by both its speed and its direction. The effects would be different if the wind was blowing against the aeroplane rather than from behind it.

Quantities which have only magnitude are called scalars

Quantities which have both magnitude and direction are called vectors

The speed of a plane is a scalar

The velocity of the plane is a vector

Directed line segment representation:

vector quantities can be represented by an arrow or directed line segment.

• Length shows size/magnitude, while arrowhead shows direction

