Classify the following units between **scalar** and vector **quantities**:

Velocity, Force, Temperature, Time, Acceleration, Speed, Work, Distance, Displacement

Find the **magnitude** and **direction** (angle) of the Resultant force given the diagram below:

5N

12N

A car with a mass of 1800 k*g* is affected by a force of 3400N , calculate its final acceleration

SUVAT equations (equations page 29) :

A car accelerates from rest at a constant rate of 3 m/s² for 5 seconds.

*Calculate:* **a.** its final velocity **b.** the distance the car traveled during 5 seconds ?

A cyclist travels at an average speed of 12 km/h for 2.5 hours. How far does the cyclist travel during this time?