

The forces acting on the skydiver are **W** his **weight** and **R** which is **Resistance** due to air drag.

His **mass** is **100Kg**

Calculate the net force on the skydiver and the acceleration for each letter (a-f). **Show work** and include a **unit label**. Remember both quantities are vectors, so **include a direction** (you may use + or - if you'd like).

- | | |
|----|----------------------|
| a. | net force = _____ |
| | acceleration = _____ |
| b | net force = _____ |
| | acceleration = _____ |
| c | net force = _____ |
| | acceleration = _____ |
| d | net force = _____ |
| | acceleration = _____ |
| e | net force = _____ |
| | acceleration = _____ |
| f | net force = _____ |
| | acceleration = _____ |

Answer the following with the correct letter(s) (a-f)

- Terminal velocity is reached in which positions?

- Downward Velocity occurs in which positions?

