Acceleration Practice.

 $u = \frac{v - u}{t}$

Calculate the acceleration in each of these situations.

 $a = \frac{\Delta v}{\Delta t}$

1. Car sets off from rest and reaches a speed of 8 m s-1 in a time of 2 s

2.
A skier has an initial speed of
2 ms⁻¹ 4 seconds later her speed is
now 6 m s⁻¹

3. A rocket changes its speed from 100 m s^{-1} to 300 m s^{-1} in a time of 40 seconds.







4. A ball sitting at rest is kicked and the speed 0.8 seconds later is $15~{\rm m~s^{-1}}$

5. A rock falls of a mountain from rest. After 2 seconds it has a speed of 20 m $\rm s^{-1}$

6. A cyclist changes his speed from 2.5 m s⁻¹ to 4.5 m s⁻¹ in a time of 5 s





