Force (N) = mass (kg) x acceleration(m/s 2)

Acceleration of gravity Velocity (v) = acceleration (a) x time (t) $a = g = 9.8 \text{ m/s}^2$

- The maximum acceleration of a fist in a karate blow has been measured to be 3500 m/s. The mass of the first is .70 kg. If the fist hits a wooden block, what force does the wood place on the first?
- 2. How much force is needed to accelerate a bicycle and rider with mass 60 kg at 1.5 m/s³?

GOK9 x 1.5 m/s

- What is the acceleration of a 4000 kg airplane that has a force on it of 24000 N?
 4000 kg
- 4. An 80-N force will accelerate a 20-kg mass at 4 m/s2.
 - a. What force will be required to maintain the same acceleration if the mass is doubled?
 - b. If the mass is doubled and the force remains the same what is the acceleration?
- 5. An acorn falls from the top of an oak tree to the ground in 1.5 seconds. What is the velocity of the acorn when it hits the ground?

14.7

6. An object dropped from a 20-story building takes about 4 seconds to fall. How fast is it going when it strikes the ground?

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