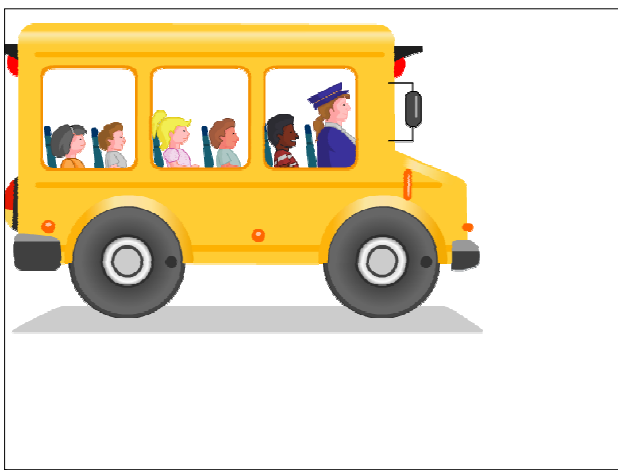


$$F = ma$$

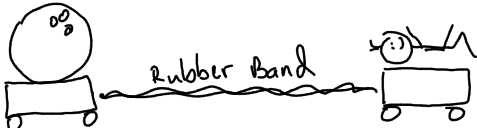
Force = Mass x acceleration

$$\frac{\text{Force}}{\text{mass}} = \text{acc}$$

	.
F	Σ
M	F
A	M
	A



car	bus
$m A = \text{Force} = M A$	



$m_1 a_1 = F = m_2 a_2$
 $d = 31 \text{ cm}$ $d = 69 \text{ cm}$
 $\frac{69}{31} = 2.25$
 7.3 kg 3.1 kg
 $\frac{7.3}{3.1} = \approx 2.2$

$$F_{\text{net}} = M_{\text{sys}} a$$

F_{net} = net force, or whatever is left over after adding all the forces together.

Friction 10N ← Newtons 30N applied →

$F_{\text{net}} = 30\text{N} - 10\text{N} = 20\text{N R}$

M_{sys} - Mass of the system the total mass of all the parts (kg)

