

1. object in motion tends to stay in motion
2. $F = ma$ force = mass $\times$ acceleration
vector in same direction as acceleration
3. For every action there is an equal + opposite reaction

B
A
E
D
C

1. Weight	A. When all forces on an object are balanced.	E	1. Rolling friction	A. Resistance of a fluid on an object.
2. Equilibrium	B. The force of gravity on an object.	B	2. Air friction	B. Resistance of air pushing against an object.
3. Mass	C. The acceleration of gravity.	A	3. Viscous friction	C. Resistance of two objects pushing against each other.
4. Heat	D. The a product of friction.	C	4. Sliding friction	D. Any force that resists motion.
5. g	E. The measure of the matter in an object.	D	5. Friction	E. Resistance of a wheel or ball.
More, less, or the same as on the Earth			Which of Newton's Three Laws Applies? Law 1, 2, or 3?	
When an astronaut lands on the moon: The astronaut's mass is: <u>same</u> The astronaut's weight is: <u>less</u> <i>doesn't resist to change in motion</i> The astronaut's inertia is: <u>same</u>			1. Pushing a cart down the hall, when you try to turn it it tries to go straight. 2. More acceleration takes more force. 3. When you push your knuckles into a table, it hurts your knuckles. 3. A ball thrown into the ground bounces back up.	
Using $g = 10 \text{ m/s}^2$, find the weight of a 4 kg object. $F_w = mg = (4 \text{ kg})(10 \text{ m/s}^2) = 40 \frac{\text{kg} \cdot \text{m}}{\text{s}^2} = 40 \text{ N}$			Two boys push on a box with 3 N and 6 N to the right. The net force is 7 N. Find the force of friction.  $3\text{N} \rightarrow$ $6\text{N} \rightarrow$ $7\text{N} \leftarrow$ $7 + 6 = -2\text{N}$ -2N	
An object weighs 350 N. Find its mass. Use $g = 10 \text{ m/s}^2$. $F_w = mg$ $m = \frac{F_w}{g} = \frac{350}{10} = 35 \text{ kg}$			A car's engine pushes with 45 N to the right. If it is at equilibrium, how much air friction is there and what is the car's acceleration? $45\text{N} \rightarrow$ Air friction = 45N $a = 0 \text{ m/s}^2$	
If 100 kg person weighed 400 N on the planet Zorg, what is the acceleration due to gravity on Zorg? $F_w = mg$ $g = \frac{F_w}{m} = \frac{400}{100} = 4 \frac{\text{m}}{\text{s}^2}$			A 25kg object accelerates at 5 m/s^2. Find the force. $F_w = mg = (25)(5) = 125 \text{ N}$	
A sled is pushed with 30 N and sliding friction is 10 N. Find the net force on the sled. $30 - 10 = 20 \text{ N}$ $30 \rightarrow \text{Sled} \leftarrow 10$			A boat's motor pushes with 25 N of force and viscous friction resists with 5 N. If the boat is 100 kg, find its acceleration. $25\text{N} \rightarrow$ $\leftarrow 5\text{N}$ $F_w = 20\text{N}$ $F_w = mg$ $g = \frac{F_w}{m} = \frac{20}{100}$ $a = 0.4 \frac{\text{m}}{\text{s}^2}$	

Answer Key Weigh Friction Equilibrium

Sir Tarun Rupani



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