

## NEWTON'S LAWS PRACTICE PROBLEMS

Answer the following questions in your science notebook. Show all of your work for math problems (equation, plug-in numbers, box answer). Restate the question in your answer for answers that you explain in words.

### NET FORCE & NEWTON'S 1<sup>ST</sup> LAW OF MOTION

1. Describe the motion of the race car shown in the graphic to the right. Assume the car is moving forward. Is it speeding up or slowing down?

**slowing down**

2. Find the net force on each box.



3. You weigh a bear by making him stand on four scales as shown. Draw a free-body diagram showing all the forces acting on the bear. If his weight is 1,500 newtons, what is the reading on the fourth scale?



**550 N**

4. A bowling ball has a mass of 6 kilograms. A tennis ball has a mass of 0.06 kilogram. How much inertia does the bowling ball have compared to the tennis ball?

**bowling ball has 100x more inertia**

5. Make a free-body diagram of someone pushing a refrigerator that shows:  
a. A net force of 100 N with the refrigerator being pushed to the right.  
b. The refrigerator in equilibrium.



### NEWTON'S 2<sup>ND</sup> LAW OF MOTION

6. A 100 kg bag of sand has a weight on 100 N. When dropped its acceleration is what?

$$F = ma \quad 100\text{ N} = (100\text{ kg})a \quad a = 100\text{ N} / 100\text{ kg} \quad a = 1\text{ m/s}^2$$

7. What is the net force required to give an automobile of mass 1600 kg an acceleration of 4.5 m/s<sup>2</sup>?

$$F = ma \quad F = (1600\text{ kg})(4.5\text{ m/s}^2) \quad F = 7,200\text{ N}$$

8. What is the acceleration of a wagon of mass 20 kg if a horizontal force of 64 N is applied to it? (ignore friction)

$$F = ma \quad 64\text{ N} = (20\text{ kg})a \quad a = \frac{64\text{ N}}{20\text{ kg}} \quad a = 3.2\text{ m/s}^2$$

9. What is the mass of an object that is experiencing a net force of 200 N and an acceleration of 500 m/s<sup>2</sup>?

$$F = ma \quad 200\text{ N} = m(500\text{ m/s}^2) \quad m = \frac{200\text{ N}}{500\text{ m/s}^2} \quad m = 0.4\text{ kg}$$

10. During a test crash, an air bag inflates to stop a dummy's forward motion. The dummy's mass is 75 kg. If the net force on the dummy is 825 N toward the rear of the car, what is the dummy's deceleration?

$$F = ma \quad 825\text{ N} = (75\text{ kg})a \quad a = \frac{825\text{ N}}{75\text{ kg}} \quad a = 11\text{ m/s}^2$$

# Newton's Laws Physical Science Test Answer Key

**ML Morrison**



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