

- 1 What happens when two forces act in the same direction?
- A They cancel each other out.
 - B The stronger one prevails.
 - C Their strengths are added.
 - D Their sum divided by two is the total force.
- 2 The greater the mass of an object,
- A the easier the object starts moving.
 - B the greater its inertia.
 - C the more balanced it is.
 - D the more space it takes up.
- 3 The force of gravity on a person or object on the surface of a planet is called
- A mass.
 - B terminal velocity.
 - C weight.
 - D free fall.
- 4 The force that one surface exerts on another when the two rub against each other is called
- A friction.
 - B acceleration.
 - C inertia.
 - D gravity.
- 5 Forces can be added together only if they are
- A acting on the same object.
 - B balanced forces.
 - C unaffected by gravity.
 - D substantial.

- 6 Buoyant force acts in the opposite direction as the force of
- A light.
 - B unequal forces.
 - C gravity.
 - D Newtons.
- 7 Gravity will pull a pencil down with the same force as a feather with the same mass. This is an example of
- A balanced forces.
 - B Newton's first law of motion.
 - C Newton's second law of motion.
 - D Newton's third law of motion.
- 8 When placed in a bowl of oil with a density of 0.95 g/cm^3 , an unknown material with a density of 0.90 g/cm^3 will
- A sink
 - B become more dense.
 - C become more buoyant.
 - D float.
- 9 According to Newton's third law of motion, when a hammer strikes and exerts force on a nail, the nail
- A creates a friction with the hammer.
 - B disappears into the wood.
 - C exerts an equal and opposite force on the hammer.
 - D moves at a constant speed.
- 10 If you drop a sheet of paper horizontal to the floor and a crumpled ball of paper at the same time from the same height in your classroom, the crumpled ball of paper will hit the floor first because
- A both the sheet of paper and the crumpled ball of paper are in free fall.
 - B gravity acts only on the crumpled ball of paper.
 - C air friction has a greater effect on the crumpled ball of paper.
 - D air friction has a greater effect on the sheet of paper dropped horizontally.

- 11 An object that orbits another object in space is called a(n)
- A projectile.
 - B inertia.
 - C mass.
 - D satellite.
- 12 How can you increase the momentum of an object?
- A by decreasing its velocity
 - B by increasing its mass
 - C by increasing its friction
 - D by decreasing its acceleration