

**Ch 2 Conceptual Physics-11<sup>th</sup> edition Answers by R. E. Tremblay**  
**pg. 30 Review Questions**

9. Cite Newton's 1<sup>st</sup> law of motion.

**Ans.** An object at rest will remain at rest. An object in motion will remain in motion at a constant velocity, unless an unbalanced force is applied to it.

10. What is the net force on a cart that is pulled to the right with 100 pounds of force and to the left with 30 pounds of force?

**Ans.** 70 pounds to the right.

11. Why do we say that force is a vector quantity?

**Ans.** To know the complete value of a force we must know its magnitude and direction. Anything that has both magnitude and direction is given the name *vector*.

14. What is the net force on a bag pulled down by gravity with 18 newtons and pulled upward by a rope with a force of 18 newtons.

**Ans.** 0 newtons.

15. What does it mean to say that something is in mechanical equilibrium?

**Ans.** When an object is in mechanical equilibrium, the sum of all the forces on it are zero and it therefore cannot accelerate.

17. Consider a book that weighs 15 newtons at rest on a flat table. a) How many newtons of support force does the table provide? b) What is the net force on the book in this case?

**Ans.** a) Because the net force is 0 and we are told that the book is pushing down on the table with a force of 15 newtons, we must conclude that the table is pushing up on the book with a force of 15 newtons.

b) Because the book is at rest on the table, those of us that believe in Newton's 1st law of motion know that the net force on the book must be zero.

20. What is the test for whether a moving object is in equilibrium?

**Ans.** If an object is not accelerating, then it is in equilibrium.

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