Mod:\_\_\_\_\_ Date:

Directions: Answer the following problems below using complete sentences to earn full credit.

1. Compare and contrast contact vs. field forces. Give examples of each.

A field force and contact force both apply forces to objects. A contact force requires two objects to be in contact with one another to exist. A field force interacts with objects without contact through some force field. Examples of contact forces would be push and pull. Examples of field forces are gravity and electromagnetic.

2. How do we calculate the weight of an object?

$$w = mg$$
  
 $weight(N) = Mass(kg)x$  Acceleration Due to Gravity (9.8 $\frac{m}{12}$ )

3. What is the weight of a 40kg object?

$$w = mg$$

$$w = (40kg) (9.8 \frac{m}{3})$$

$$w = 392N$$

4. What would be the mass of an object that weighted 200N?

$$m = \frac{w}{g}$$

$$m = \frac{200N}{9.822} = 20.41kg$$

5. What changes depending on location in the universe, weight or mass? Explain...

Mass is the measure of matter in an object. Weight is the force of gravity pulling on an object. Mass stays constant regardless of location. Weight depends on the gravitational field produced by near by large masses.

6. State Newton's First Law of Motion.

Also known as the law of inertia. An object as rest remains at rest. An object in motion remains at a constant velocity, unless acted on by an unbalance net force.

7. State Inertia.

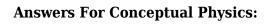
The tendency for an object to resist change in motion. Directly proportional to mass.

8. Why is the normal force called a support force?

It is the force created by an object supporting another object.

# **Answers For Conceptual Physics**

Wenbin Ji



#### **Answers For Conceptual Physics** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Answers For Conceptual Physics**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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the indicator is switched on 10 minutes beforehand so that it would stabilize

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web the bending moment m x at any point x along the beam can be found by using the following equations bending moment diagrams are simply plots of the bending moment on the y axis versus the position of various points along the beam on the x axis thus the following is the generalized bending moment diagram for the beam shown above

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