Teacher Name: Sidra Sami Class: 7 Subject: Science

Q;1 Fill in the blanks:

1. Gravitational force (gravity) is the force of attraction (pull) between two \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. The \_\_\_\_\_\_\_\_\_\_\_\_\_ of an object is the gravitational force acting on the object.
3. A force can be represented by an \_\_\_\_\_\_\_\_\_\_\_\_.
4. Density is the mass per unit\_\_\_\_\_\_\_\_\_\_\_\_\_ of a substance.
5. The upthrust acting on a \_\_\_\_\_\_\_\_\_\_\_\_object is equal to its weight.

Q.2 Osmium, the densest metal found, has a density of **22.6 g/cm3**. The mass of a block of osmium was found to be **113g**. Find its volume.

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Q.3 Friction is reduced in a moving maglev train by lifting it above its track by magnetic repulsion. What are the advantages of reducing friction between the train and the track?

