

*Name of the student:* ..... *Date:* 23/09/2020

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**Mass:**

Mass of an object refers to the amount of material present in an object.

- ✓ The mass of the objects depends on the number and kind of atoms and the bonds by which the object is formed.
- ✓ Mass of an object does not depend on the location.
- ✓ The international unit of mass is kilogram (kg).
- ✓ General balance is used to measure the mass of an object.
- ✓ One tone is 1000 kg.

If a 1200 kg truck is loaded by 5750 kg onion, what will be the mass of the truck in ton now?

Ans:

**Weight:**

The force by which the earth attracts an object to its center is called its weight.

- ✓ The weight of the objects depends on mass and acceleration due to gravity.
- ✓ Weight of an object depends on the location.
- ✓ The international unit of weight is newton (N).
- ✓ Spring balance is used to measure the mass of an object.
- ✓ Weight of an object at the surface of the moon is  $\frac{1}{6}$  compared to that at the surface of the earth.
- ✓ Weight (W) = Mass (m) × Acceleration due to gravity (g).

$$W = mg$$

If your mass is 60 kg, what will be your weight considering  $g = 9.8\text{ms}^{-2}$



Ans:

Q. If the mass of a dog at the surface of the earth is 25 kg, what will be its weight at the surface of the moon?

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Q. Write down five differences between mass and weight.

Mass	Weight