

Worksheet 1

1- Complete the following statements :

- 1- mass is measured by different types of scales as .....  
and.....
- 2- the measuring unit of mass is.....or.....whereas the  
measuring unit of weight is.....
3. the factors affect the weight of the body depends on ..... ,  
..... and .....
4. the gravitational force by which body is attracted to the earth  
is called ..... and it increases of planet increases
5. the mass of body on earth is ....., wherase weight of earth  
is .....
6. the object's mass on the moon's surface ..... its mass on the  
earth's surface
7. the weight of an object on the moon's surface equals  
.....of its weight on the earth's surface
8. when mass of a desk is 15 kg , then its weight equals .....
9. newton is the measuring unit of weight which equals .....  
grams
10. weight is measured by ..... balance

2-write the scientific term:

- 1) the amount of matter in object (.....)
  - 2) the device used to measure the weight of object (.....)
  - 3) mass(kg) x 10 (.....)
  - 4) weight / 10 (.....)
  - 5) a force with which a body is attracted to earth (.....)
  - 6) a device used to measure mass of object (.....)
  - 7) the measuring unit of mass which suitable for measuring the large masses (.....)
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3. correct the underlined words:

1. the digital scale is used in measuring weight.
2. newton is the measurement unit of mass.
3. when the mass of a toy car equals 1 kg , so its weight equals 300 newton.
4. by increasing the mass of a piece of stone , its weight decreases.
5. kilogram equals the mass of one paper clip.
6. an object's mass on the moon is one sixth its mass on the earth
7. the weight is a constant amount that doesn't change as the place changes

8. weight is the amount of matter in an object

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4.give reasons for the following:

1. object falls downward earth.
  - 2.weight of a person on earth's surface is larger than on the moon's surface.
  3. the weight of body in a balloon is smaller than that on earth's surface.
  4. the force of the moon's gravity is lesser than the earth's gravity.
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5. what happens if .....?

1. the mass of an object increases.
  2. there is no gravity on the earth's surface.
  - 3.the mass of object decreases to a half.
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6.problems:

1. calculate the weight of an object on the moon's surface , where its weight on the earth's surface is 6 newton.
- 2.if the object's = 30kg on the earth , calculate:
  - a) it's mass on the moon.
  - b) it's weight on the earth.
  - c) it's weight on the moon.

3. if an object's mass = 200gm on the earth's surface, calculate :

a. its mass on the moon.

b. its weight on the earth.