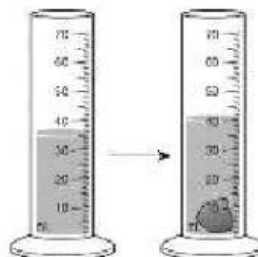## *Q1\ MULTIPLE CHOICE*

1. Ritaj partially filled a graduated cylinder with water. She then dropped a rock into the water. The illustration below shows what happened to the level of the water inside the graduated cylinder. **Which property of matter is Josie measuring?**
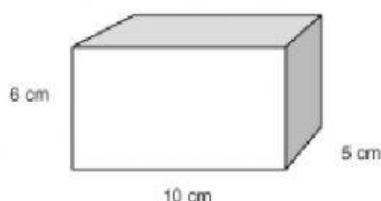
   A. mass
   B. length
   C. Weight
   D. Volume

2. **What is the volume of this solid?**

   A.   21 cm3
   B.   30 cm2
   C.   60 cm2
   D. 300 cm3

3. …… .... are the third type of mixture that falls somewhere between suspensions and solutions
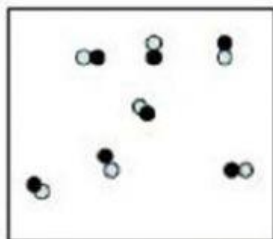
   A. Colloids

   B. Atoms

   C. Pure Substance

   D. Metalloids

4. **Which of the following is an example of a homogeneous mixture?**

   A. Salt + water
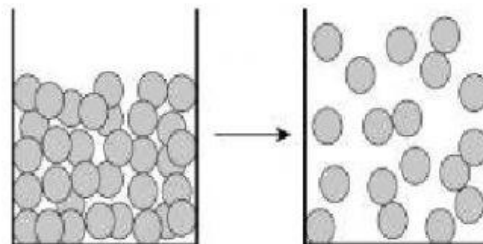
   B. Salt + Sand

   C. Sand + Water

   D. Sand + Rocks

5. **The picture shows …………………..**

   A. Mixture

   B. Atoms

   C. Pure substance

   D. Element

6. **This change of state could be occurring to the substance in the beaker if it?**

A. Gain Energy

B. Loose some Particles.

C. Gain more particles

D. Loose Energy

7. **At which temperature does ice melt into liquid water?**

A. 0 °C
B. 32 °C
C. 100 °C
D. 212 °C

8. **Which process is an example of a physical change?**

A. Sodium metal and water are combined to form a basic compound and a flammable gas.

B. an iron nail rusting

C. Carrots are cut into small pieces and mixed into a salad.

D. Baking a cupcake

9. **When the solid changes into a gas this is :**

A. Evaporation

B. Condensation

C. Sublimation

D. Deposition

10. What happens to the particles of a sample of matter as its temperature increases?

   A. The particles melt.

   B. The particles move faster.

   C. The particles grow in size.

   D. The particles become smaller .

Q2\: Write an example of each of the following:
(((Now you will choose but in the midterm you will write)))

   1. Chemical Change: Flammability - Malleability -   Burning   - Melting

   2. Physical Property: : Flammability - Malleability -   Burning   - Melting

   3. Heterogeneous mixture: Lemonade – Sugar and water – Salt and water - Sand and water

Q3\ Find out the mistake in these problems:
(in the midterm you will solve it by yourself)

An unknown substance has a volume of 2 cm³ and a mass of 38.6 grams. What is the density of the sample?

.05

E.P.S.E
Problem Solving Model

Explore – Fact Finding.

We have :

V= 2 cm³

M= 38.6 g

Plan – How will I solve this problem?

We need to find D so we'll use the formula:

$$D = \frac{V}{M}$$

Substitute and Solve

$$D = \frac{2}{38.6}$$

Examine – Add the suitable unit

$$D = .05 \text{ g} \backslash \text{cm}^3$$

The mistake is:

LIVEWORKSHEETS

2\ The density of aluminum is 2.7 g/cm³. What is the volume of a piece of aluminum if its mass is 8.1 grams?

E.P.S.E
Problem Solving Model

Explore – Fact Finding.

We have :

Density = 2.7 g\ cm³

Mass = 8.1 g

Substitute and Solve

$$V = \frac{2.7}{8.1}$$

Plan – How will I solve this problem?

We need to find the volume

The formula is: $V = \dfrac{M}{D}$

Examine – Add the suitable unit

Volume = .33 g

The mistake is:

Q4\ Fill in the blank with a word from the list:

(Physical change – Matter – Element- Mixture – Chemical change)

1. ………………………….. is anything that has mass and takes up space.

2. ………..……………. can be measured without changing the identity of the substance.

3. ……………..……….. is a substance that is made up of one type of atom.

QUESTION FIVE: Put true (T) or false (F) for the following sentences:
(in the midterm you have to write the correction)

1. A liquid has both a definite shape and a definite volume. (   )
………………………………………………………………………………………………………
…………………………………………………………………………

2. The boiling point of water is 100 C^0 (   )
………………………………………………………………………………………………………
………………………………………………………………

3. Saltwater and sand can be separated By Evaporation (   )
………………………………………………………………………………………………………
…………………………………………………………………