Welland Gouldsmith School

Class VIII MATHEMATICS

Rational Numbers 1

b. $m = \frac{1}{n}$

b. Additive Identity

d. None of these

d. m = n

Choose correct answer(s) from the given choices

 $p = \frac{p \times m}{p \times m}$ (1) If then which of the following statements is always true? q q x n

a. m = 1

c. n = 1

12 (2) What is the relation of to <u>described</u> as? 19

a. Multiplicative Inverse

c. Multiplicative Identity

 $-\frac{-1}{13}$, $\frac{1}{-14}$ and $\frac{-1}{19}$, which is greater? (3) Out of the three rational numbers, -1 b. ____ -1 a. ____ 19 13 1 c. ____ d. Rational numbers can not be compared -14 Which of the following statement is true? (4) **a.** <u>6</u> -24

19

12

-7	28	-6	-7
	-24	d	< -24
	28		28

Fill in the blanks

(5) Find the following product and simplify it to lowest term:

A)
$$\frac{5}{5} \times \frac{1}{4} \times \frac{5}{5} =$$

B) $\frac{4}{4} \times \frac{-3}{4} \times \frac{-3}{2} \times \frac{-3}{4} \times \frac{-2}{5} = ---$ 4 4 Answer the questions (6) Out of the three rational numbers, 11 -12 15 (7) A basket contains three type of fruits weighing 120 kg in all. If 69 kg of these are apples, 17 kg are oranges and the rest are pears. What is the weight of the pears in 2 the basket? 4 _____ the multiplicative inverse of -2 _____? Why or why not ? (8) Is 9 4 6 (9) What is the multiplicative inverse of ____? 28 (10) Find 16 rational numbers between <u>- 1 and 19</u> 21 21

Rational Numbers 2 Choose correct answer(s) from the given choices			
(1) What is the lowest form of the rational number	$\frac{15}{6}$?		
5	10		
a	b		
6	4		
c	5 d. <u> </u>		
15	2		
 (2) Regarding rational numbers: A. The quotient of two integers is always a rational q ⁴/₀ is not a rational number. Which of the following statements is correct ? a. A is correct and B is correct explanation of A. 	b. A is correct but B is incorrect.		
c. A is false but B is a correct explanation of A.	d. Both A and B are false.		
(3) Which of the following statement is true? a. $\frac{7}{-8} > \frac{7}{-9}$ 7 = -14	b. $\frac{7}{-9} = \frac{-14}{18}$ 7 -14		
c. $\frac{7}{-14} < \frac{-14}{14}$	d. $\frac{7}{-14} > \frac{-14}{-14}$		

-9

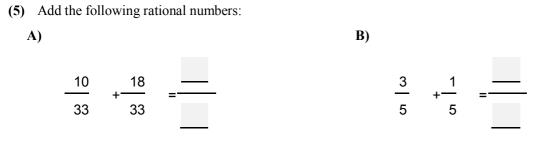
18

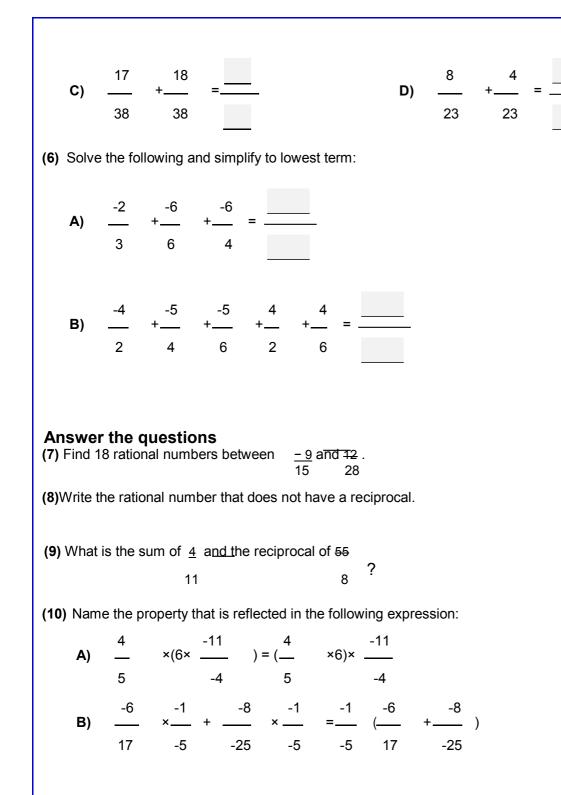
(4) If $\frac{p}{q} = \frac{p \times m}{q \times n}$ then which of the following statements is always true? **a.** m = 0 **b.** n = 1 **c.** m = n**d.** m = 1

Fill in the blanks

-9

18





Class VIII PHYSICS

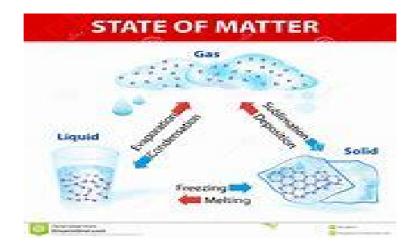
WORKSHEET: 1

1) Fill in the blanks with the correct option:

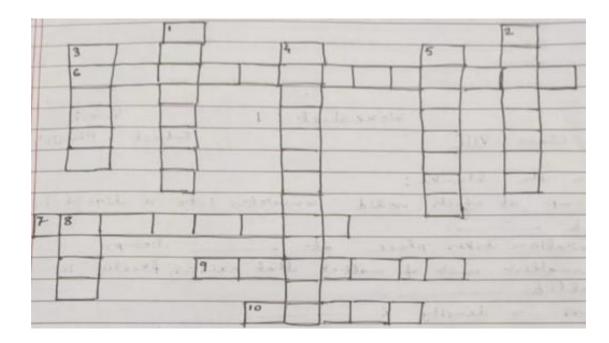
- a) The temperature at which solid converts into liquid iscalled -----. (melting point, boiling point, ice point).
- b) The smallest unit of matter that exists freely in nature isknown as-----. (atom, molecule, element).
- c) Mass = Densityx ------ (pressure, volume, weight).
- d) The atmospheric pressure at sea levelis -----. (76 cm of Hg, 760 cm of Hg)
- e) Speed of light in airis -----. $(3 \times 10^8 \text{ m/s}, 4 \times 10^8 \text{ m/s}, 6 \times 10^8 \text{ m/s})$
- f) Liquidsexpand <u>thansolids.</u> (more, less, equal)
- g) The time period of a wave is 2 seconds, it's frequency willbe -----(0.5 s, 0.8 s, 0.4s).
- h) Melting point of iceis -----(100.C,0.C,120.C)

2) Match the column:

·			
Column	Column		
A	В		
1. Molecules	Water boils		
2. 100 °C	Evaporation		
3.) 0 °C	Changes from solid to gas		
4. At all temperature	Matter		
5. Camphor	Water freezes		



3. Solve the following puzzle:



Across:

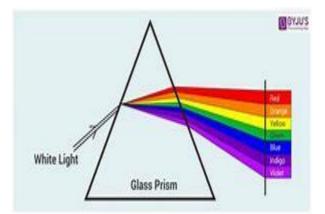
- 6. force between two chargedobjects
- 7.the force acting between the two poles of amagnet
- 9. force applied by direct touching anobject
- 10. term used for liquid and gasestogether

Down:

- **1.** force applied per unitarea
- 2. the force necessary for our smoothmotion
- **3.** unit offorce
- 4. force with which earth revolves around thesun
- 5. the net resultant of forces acting on an object iszero
- 8. pressure depends upon
- 4. Select the correct alternate:
 - a) The inter molecular space is maximum in 1. liquids 2. Gases 3. solids 4. none
 - b) the temperature at which liquid gets converted into its vapor state is called point 1.melting 2. Boiling 3.dew 4. freezing
 - c) Pressure exerted by a liquid is due to its: 1.weight 2. mass3. volume4.area
 - d) Nose bleeding at high altitude may occur because 1.the atmospheric pressuredecreases
 2.the oxygen content of the atmosphere decreases 3.the atmospheric pressure increases
 4.there are strong air current at high altitude

- 5. Name the type of energy (kinetic or potential)
 - a compressed spring
 - a movingbus
 - a bullet fired fromgun
 - water flowing in theriver
 - a stretched rubber
 - a falling hammer strikes anail
 - a stretchedbow
 - girl moving on theroad
- 6. Explain why in hot summer days water remains cools in earthen pots?
- 7. Name the various colors present in the spectrum of sunlight.
- 8. Convert 98-degree F to degree C and 78 degree C to kelvin scale?
- 9. What are the precautions to be taken while using electricity?
- **10.** Give examples of stringed instruments and wind instruments.





Class VIII PHYSICS

WORKSHEET: 2

1. <u>State the invention of the following famous scientists:</u>

John Dalton, Albert Einstein, J.J Thomson, Rutherford, Isaac Newton, George Simon Ohm, Max Planck, Archimedes, C.V Raman, Homi.J. Bhabha, Meghnad Saha, Satyendra Nath Bose.

2. Fill in the blanks from the options given:

1. Likecharges ------while unlikecharges. (repel/attract).

2. Mercuryis a - -----(good/poor) conductor of electricity while pure waterisa -----(good/poor) of electricity.

3.-----is the surest test of magnetism. (attraction/repulsion).

4. Negative electrification of a body is due to the ------ (excess/shortage) of the electrons.

5. The materials which don't allow the heat energy to flow through them arecalled----

(conductors/insulators).

S. Match the column.			
Column A	Column B		
1. virtual images	Sharp cutting edge		
2. invar	Maximum displacement		
3. no limit	Convex mirror		
4. solid to gases	Ampere		
5. frequency	Cooking utensils		
6. real images	Pendulum of a clock		
7. Pyrex glasses	Relative density		
8. current	I/T		
9. knife	Concave mirror		
10. amplitude	Sublimation		

3. <u>Match the column:</u>

4. State the energy changes in the following:

electricbulb, electricmotor, amicrophone, steamengine, loudspeaker

5. <u>In which of the following cases is work being done:</u>

a boy pushing a heavyrock, a boy climbing up thestairs, a coolie standing with a box on hishead, a girl moving on theroad, the earth moves around thesun

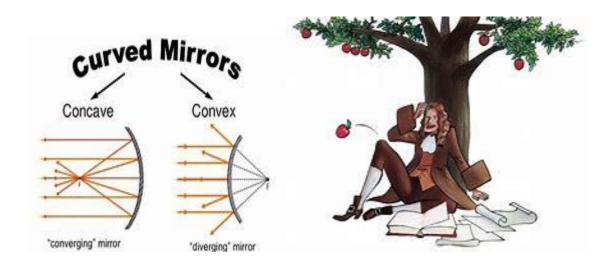
6. <u>A liquid can change into vaporstate:</u>

- i) At fixed temperatureand
- ii) At alltemperature. Name the process involved in the two cases
- 7. Why are volatile liquid such as spirit stored in tightly closed bottles?
- **8.** Which of the following will float or sink on water?(density of water = $1g/cm^3$)

1. body A having density 500g /cm^3

2. body B having density0.85g/cm^3

- **9.** State the kind of mirror used:
- a) By adentist
- b) As a street lightreflector
- **10.** Why does a plastic comb rubbed with dry hair attract bits of paper?
- **11.** State two safety measures that you will observe duringthunderstorm.





Class VIII CHEMISTRY

WORKSHEET

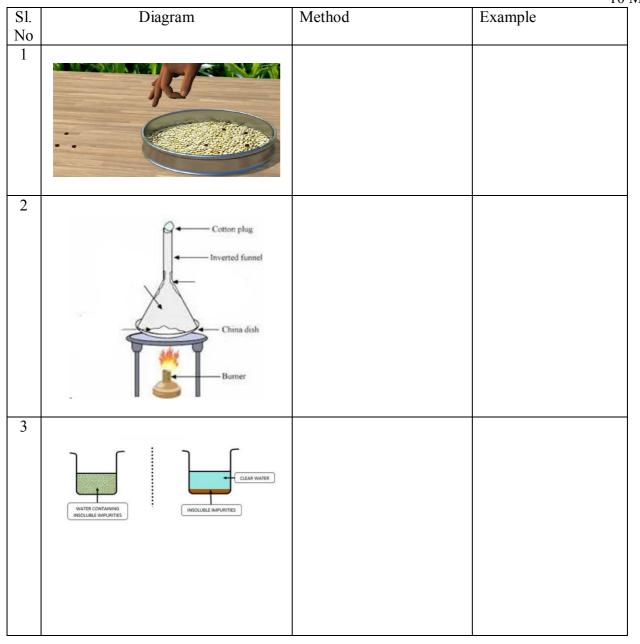
I. Match the columns: -

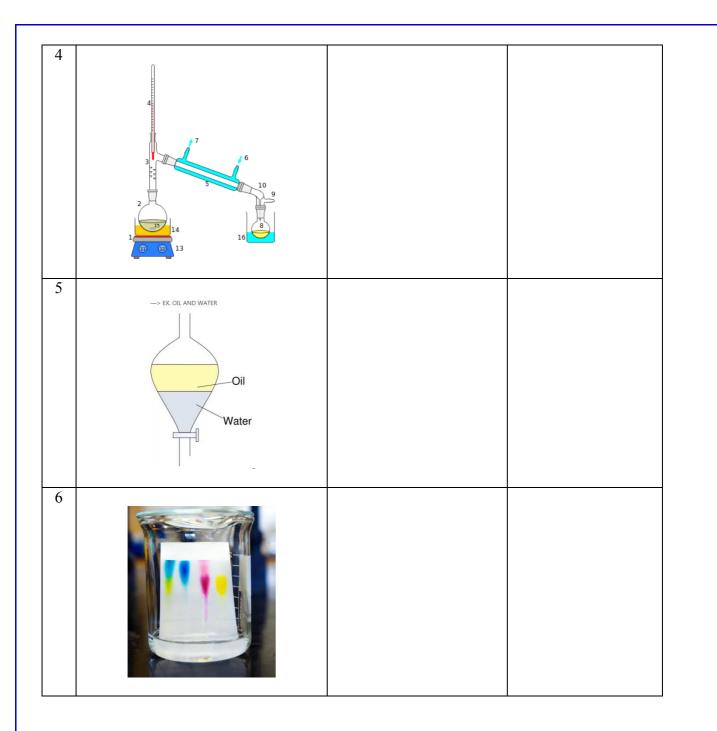
A	Metal	1	Sulphur
В	Metalloid	2	Bronze
С	Noble Gas	3	Sugar + H ₂ O
D	Homogeneous Mixture	4	Silver
E	Heterogeneous Mixture	5	Mercury
F	Non-metal	6	Salt and Sand
G	Alloy	7	ARSENIC As.S. Arsenic
Н	Metal that is liquid at room temperature	8	Helium

II. Quiz Time
1. Alloy used for making bodies of an aircraft is
a) Steel b) Bronze C) Duralumin D) Brass
2. Hardest substance in nature is
a) Silver b) Gold c) Diamond d) Platinum
3. Gold is used in making jewellery due to its
a) hardness b) luster c) density d) sonority
4. Highly concentrated solution of sugar is
a) syrup b) soada water c) mineral water d) saline water
5. Metal having highest melting point
a) Gold b) Silver c) Tungsten d) Platinum
6. Liquid non metal
a) Bromine b) Sulphur c) Chlorine d) Oxygen
7. A non metal which possesses luster
a) Carbon b) Sulphur c) Helium d)Iodine
8. Solder is an alloy of
a) Lead and Tin b) Lead and Conner c) Lead and Nickel d) Tin and Conner

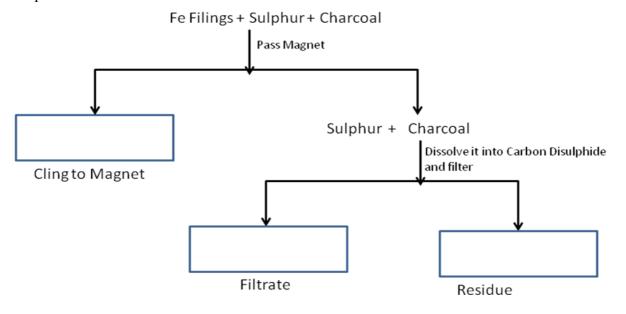
a) Lead and Tin b) Lead and Copper c) Lead and Nickel d) Tin and Copper

III. Complete the following table





IV. Complete the chart



Class VIII CHEMISTRY Assignment 1

- I. Identify the changes as per instruction. Think and write a suitable reason for your answer 12 Mins
 - a. Dissolution of sugar in water (Physical / Chemical)
 - **b.** Rusting of iron (Reversible / Irreversible)
 - c. Magnetisation of an iron nail (Physical / Chemical)
 - d. Ripening of fruit (Desirable / Undesirable)
 - e. Flowering of plants (Natural / Man made)
 - **f.** Freezing of water. (Reversible / Irreversible)
- **II**. Look at the figure and answer the following questions.



- a. State the atomic number and mass number
- b. How many neutrons, protons and electrons are there in the atom.
- c. Identify the element
- d. Write the symbol of the element

e. Draw the atomic structure model of an element having one proton and one neutron more than the given element.

13 P 14 N

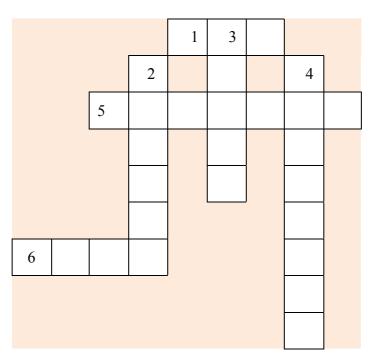
III. Solve the crossword puzzle.

Across

- 1. A charged particle
- 5. Neutral particles present in the nucleus of an atom
- 6. Basic unit of an element

Down

- 2. Latin name for iron
- 3. 8 electrons in the outermost shell of an atom
- 4. Two or more elements present in fixed ratio by mass



5 Mins

IV. Identify the state of matter:-

- 1. Takes the shape of the container
- 2. Expands least on heating
- 3. Has least density
- 4. Occupies the whole free space available5. Maximum intermolecular space present
- 6. Maximum intermolecular force of attraction

Class VIII BIOLOGY WORKSHEET-1

FIRST AID

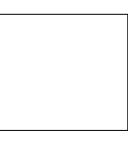
TIME: 30 minutes

It is an immediate help or care given to victim of an accident or sudden illness before he or she is taken to doctor. It can be given on cases like burns, bleeding, sudden illness, fracture etc.

1) Draw and colourthe First aid sign and The Star of life sign in the boxes given below.



2) List and draw some contents of a first aid box.







3) What First Aid would you suggest for:

A) CUTS:

B) BURNS:

C) FRACTURES : _____

D) CHOKING:

Class VIII BIOLOGY WORKSHEET-2

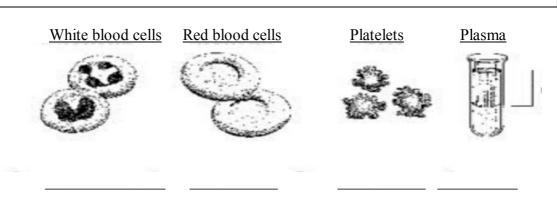
TIME: 30 minutes

Fill in the missing words to describe the four functions of blood.

- 1.
- Carries body _____to and removes _____from all body cells. Carries _____of the cell activity to _____to be removed. 2.
- Transports ______ from the digestive system to all cells. 3.
- Carries materials that fight and heal wounds. 4.

The parts of human blood are shown below. Write what each part does on the line below its picture.

Help clot blood, transport oxygen, contains nutrients and minerals, help fight infection



Collect information about the blood groups of your friends and make the blood group table as indicated below.

SL.No.	Friend	Blood group	Donate to	Receive from
1	XYZ	0	A, B, AB	0