

**ROTARY PUBLIC SCHOOL**  
**WINTER HOLIDAYS HOMEWORK (2017-18)**  
**CLASS-VI**

**Dear Students**

**I hear, I forget**

**I see, I remember**

**I do, I understand**

**This homework has been made as a revision for your preparation for the forthcoming annual examination.**

**Please complete it and handover the following homework in A4 sized ruled sheets in a simple folder with your name, separately for each subject.**

**MATHEMATICS**

**(Do the following sums based on the Chapters - 7, 9, 10, 11, 12, 14)**

1. Represent  $\frac{5}{8}$  on a number line.
2. Find the difference between  $\frac{8}{7}$  and  $\frac{7}{9}$ . ( Ans -  $\frac{23}{63}$  )
3. Write 2cm3mm as a mixed fraction. (Ans-  $\frac{23}{10}$  cm)
4. How will you decide by just looking at it, whether, the fraction is:
  - a) less than 1 ?
  - b) greater than 1 ?
  - c) equal to 1 ?
5. Write the proper fraction where numerator is the smallest prime number and denominator is smallest composite number. ( Ans-  $\frac{2}{4}$  )
6. Draw a pictograph and a bar graph for the given information:

No. of children	42	56	35	28	14	21
Favourite colour	Green	Blue	Red	Yellow	Orange	Pink

7. The weights in kilograms of 25 students of a class are given below:  
20, 21, 23, 24, 21, 23, 24, 20, 21, 21, 23, 24, 24, 25, 23, 24, 21, 23, 20, 20, 20, 21, 20, 21, 21  
Prepare a frequency distribution table for the above data.
8. Find the area (in sq.m) of a rectangular park whose length is 9m and breadth is 85cm. (Ans- 7.65sq.m)
9. What happens to the area of a rectangle if its length is doubled and breadth remains same? (Ans- doubled)
10. Solve and fill in the blank spaces: (Ans- a. 0.0017 b. 14000)
  - a.  $17\text{sq.cm} = \underline{\hspace{2cm}}\text{sq.m}$
  - b.  $1.4\text{sq.m} = \underline{\hspace{2cm}}\text{sq.cm}$
11. The perimeter of a triangle is 102cm. If its two sides are of length 45cm and 35cm, find the third side. ( Ans- 22cm)
12. Draw a circle of radius 5cm on a graph sheet. Count the squares and find its area.
13. Identify the various terms of the expression:  $5p + 6q - 8$  ( Ans- 5p, 6q, -8 )
14. If  $a=4\text{cm}$ ,  $b=3\text{cm}$  and  $c=2\text{cm}$ , find the value of  $ac+ab-2bc$  (Ans- 8)
15. Solve the equation:  $\frac{y}{4} - 2 = \frac{1}{5}$  ( Ans-  $\frac{44}{5}$  )
16. Write the numerical co-efficient of  $-11abc$ . (Ans -11 )
17. If the sum of a number and 10 is 18, what is the number? (Ans- 8)

18. The cost of 1 pen is Rs 25 and the cost of 1 pencil is Rs 3.50, find the cost of x pencils and y pens.  
( Ans- Rs (3.50x + 25y))
19. If the cost of 7 notebooks is Rs 210, then find the cost of 1 dozen notebooks. (Ans- Rs360)
20. Find the ratio of 2.1 : 0.21 (Ans- 10:1)
21. Divide Rs 642 among A, B, C in the ratio 1:2:3 ( Ans- Rs107, Rs214, Rs321)
22. Salim's yearly income is Rs 2,25,000 and his expenditure is Rs 1,50,000. Find the ratio of his Earnings : savings. (Ans- 3:1)
23. Find the value of x if 4:x::12:21 ( Ans- 7)
24. If 4 books cost Rs240, then how many books will cost Rs420? ( Ans- 7 books)
25. Draw and name the following shapes:
  - a. a triangle with 3 lines of symmetry (Ans- Equilateral triangle)
  - b. a quadrilateral with both horizontal and vertical lines of symmetry. (Ans- Rectangle)
  - c. a polygon with no line of symmetry. (Ans- Parallelogram)
  - d. a figure with infinite lines of symmetry (Ans- Circle)

## SCIENCE

1. Name the two components of food which provide energy.
2. A food item gives blue black colour with iodine. Which is the nutrient present in the food.
3. Which food item provides both Proteins and iodine.
4. Water does not provide any nutrients but still is essential in our diet . Why?
5. Write some changes happening in our body.
6. What kind of change is melting of wax?
7. A black material (Tar) is heated for repairing the road. Whether changes caused in tar , by heating can be reversed?
8. Classify the changes:
  - a) Rusting of iron.
  - b) Formation of curd from milk.
  - c) Burning of paper.
  - d) Growth of plant.
9. Write two ways by which we know the shape of Human Skeleton.
10. Can we bend our body at every part.
11. Why an hand span and arm length not be used as standard units of length?
12. Give the unit for measuring the following:
  - a) Distance between Delhi and Jaipur.
  - b) Thickness of a coin.
  - c) Length of your eraser.
  - d) Length of your shoe lace.
13. 2000 cm is equal to .....m.
14. Lead of a pencil is.....
15. Answer in one word:
  - a) Thin wire in the bulb that gives light.
  - b) Provides complete path for electricity to pass.
  - c) Materials that allow electric current to pass.
  - d) A bulb with broken filament.
  - e) Negative terminal in the electric cell.
16. At which places the magnetic forces is the least.

17. Why do you observe drops of water around a glass containing ice?
18. During winters why do we see more fog in close areas where there are lot of trees.
19. Name the process of changing water into vapour.
20. What happens if there is no rainfall for a year or more?
21. Suppose you want to dry your school uniform quickly. Would spreading it near the heater will help. If yes Why?

## **SOCIAL SCIENCE**

### **ACTIVITY**

1. Map Work: Mark the following places on an outline map of India and paste it in your History notebook.

**Lumbini, Kalinga, Taxila, Patliputra, Lampaka, and Kandhar**

2. Draw and write few lines about major landforms of earth in your Geography notebook.

**Revise all the syllabus completed.**

### **ASSIGNMENT**

**Answer the following questions.**

1. What do you understand by the term dynasty? Who was the founder of Mauryan dynasty?
2. Who was Chanayaka? Name the book written by him.
3. List the works done by Ashoka to make life of people comfortable. Mention any three points.
4. How many time zones are there in USA and Russia?
5. How are the lines of Longitudes and Latitudes useful?
6. Which place is used as a standard for time all over the world?
7. How is Nitrogen a significant gas?
8. Why is man considered a threat to biosphere?
9. Draw a diagram of Water Cycle. Enlist the ways in which you can contribute in saving water.
10. How is North America linked to South America?
11. Why do the mountaineers carry with them oxygen cylinders?
12. Quite often we use the term 'in a wasteful manner'. What do you mean by 'wasteful manner'?
13. What are the main features of plains?
14. Which category of people come under the below poverty line (BPL)? Do you agree to the point that people like Om Prakash should be included in the list of BPL?