

**Class: IX                      Social Studies**

- 1. Write short note on Rain water harvesting**
- 2). Make a list of Fundamental rights**
- 3). On the world political map locate the following**
  - a). Chile    b). Poland    c). USA    d). England**
  - e). Germany    f). France**
  - g). Japan    h). Indonesia**

**ग्रीष्म अवकाशीय गृहकार्य**

**सत्र- 2017-18**

**विषय -हिन्दी**

**कक्षा - नवमी**

**गृहकार्य की कॉपी में -**

**निम्नलिखित विषयों पर निबंध लिखिए -**

- (1) विज्ञापन से हानि-लाभ**
- (2) भ्रष्टाचार**
- (3) भूकंप एक आपदा**
- (1) पर्यावरण सुरक्षा**

**परियोजना कार्य(फाइल में)-**

- 1 दो महिला क्रांतिकारियों एवं दो पुरुष क्रांतिकारियों की जानकारी चित्र सहित दीजिए।
- 2 दो पर्वतीय स्थलों की जानकारी चित्र सहित दीजिए।
- 3 अपने विद्यालय में बच्चों के दाखिला हेतु एक विज्ञापन तैयार करें ।
- 4 कबीर दास जी के बारे में चित्र सहित जानकारी दीजिए।

#### Assignment for summer vacation - ENGLISH–Class IX

1. Read the novel and write chapter wise gist and character sketch.
2. Choose interesting articles (any 5), paste them and write your opinion for each.

कक्षा- नवमी

१, अकारान्त , इकारान्त, उकारान्त, शब्दों को देखकर पाञ्च - पाञ्च शब्द रूप लिखकर लाये ।

२, पठ धातु के अनुसार कोई पाञ्च धातु पाञ्च लकारों में लिखकर लाये ।

## HOLIDAY HOME-WORK FOR CLASS-IX-MATHEMATICS

NOTE: SOLVE THE FOLLOWING PROBLEMS ON A4 SHEETS (BOTH SIDES) AND SUBMIT ON RE-OPENING.

### NUMBER SYSTEM

1. Rational number  $\frac{3}{40}$  is equal to:  
(a) 0.75    (b) 0.12    (c) 0.012    (d) 0.075
2. A rational number between 3 and 4 is:  
(a)  $\frac{3}{2}$     (b)  $\frac{4}{3}$     (c)  $\frac{7}{2}$     (d)  $\frac{7}{4}$
3. A rational number between  $\frac{3}{5}$  and  $\frac{4}{5}$  is:  
(a)  $\frac{7}{5}$     (b)  $\frac{7}{10}$     (c)  $\frac{3}{10}$     (d)  $\frac{4}{10}$
4. A rational number between  $\frac{1}{2}$  and  $\frac{3}{4}$  is:  
(a)  $\frac{2}{5}$     (b)  $\frac{5}{8}$     (c)  $\frac{4}{3}$     (d)  $\frac{1}{4}$
5. Which one of the following is not a rational number:  
(a)  $\sqrt{2}$     (b) 0    (c)  $\sqrt{4}$     (d)  $\sqrt{-16}$
6. Which one of the following is an irrational number:  
(a)  $\sqrt{4}$     (b)  $3\sqrt{8}$     (c)  $\sqrt{100}$     (d)  $-\sqrt{0.64}$
7. Decimal representation of  $\frac{1}{5}$  is:  
(a) 0.2    (b) 0.5    (c) 0.02    (d) 0.002
8.  $3\frac{3}{8}$  in decimal form is:  
(a) 3.35    (b) 3.375    (c) 33.75    (d) 337.5
9.  $\frac{5}{6}$  in the decimal form is:  
(a)  $0.8\bar{3}$     (b)  $0.8\bar{33}$     (c)  $0.6\bar{3}$     (d)  $0.6\bar{33}$
10. Decimal representation of rational number  $\frac{8}{27}$  is:  
(a)  $0.\overline{296}$     (b)  $0.29\bar{6}$     (c)  $0.2\overline{96}$     (d) 0.296

1. Which one of the following is a rational number:  
(a)  $\sqrt{3}$  (b)  $\sqrt{2}$  (c) 0 (d)  $\sqrt{5}$
2. 0.6666 in  $\frac{p}{q}$  form is:  
(a)  $\frac{6}{99}$  (b)  $\frac{2}{3}$  (c)  $\frac{3}{5}$  (d)  $\frac{1}{66}$
3.  $4\frac{1}{8}$  in decimal form is:  
(a) 4.125 (b)  $4\overline{15}$  (c)  $4.1\overline{5}$  (d)  $0.4\overline{15}$
4. The value of  $(3+\sqrt{3})(3-\sqrt{3})$  is:  
(a) 0 (b) 6 (c) 9 (d) 3
5. The value of  $(\sqrt{5}+\sqrt{2})^2$  is:  
(a)  $7+2\sqrt{5}$  (b)  $1+5\sqrt{2}$  (c)  $7+2\sqrt{10}$  (d)  $7-2\sqrt{10}$
6. The value of  $(\sqrt{5}+\sqrt{2})(\sqrt{5}-\sqrt{2})$  is:  
(a) 10 (b) 7 (c) 3 (d)  $\sqrt{3}$
7. The value of  $(\sqrt{11}+\sqrt{7})(\sqrt{11}-\sqrt{7})$  is:  
(a) 4 (b) -4 (c) 18 (d) -18
8. The value of  $(5+\sqrt{5})(5-\sqrt{5})$  is:  
(a) 0 (b) 25 (c) 20 (d) -20
9. On rationalizing the denominator of  $\frac{1}{\sqrt{7}}$ , we get  
(a) 7 (b)  $\frac{\sqrt{7}}{7}$  (c)  $\frac{-\sqrt{7}}{7}$  (d)  $\sqrt{7}$
10. Which of the following is true?  
(a) Every whole number is a natural number (b) Every integer is a rational number  
(c) Every rational number is an integer (d) Every integer is a whole number
11. The number of rational numbers between  $\sqrt{3}$  and  $\sqrt{5}$  is  
(a) One (b) 3 (c) none (d) infinitely many

12. If we add two irrational numbers, the resulting number  
 (a) is always an irrational number (b) is always a rational number  
 (c) may be a rational or an irrational number (d) always an integer
13. The value of  $\frac{1}{11}$  in decimal form is:  
 (a)  $0.0\overline{99}$  (b)  $0.\overline{909}$  (c)  $0.\overline{09}$  (d)  $0.00\overline{9}$
14. Decimal expansion of a rational number is terminating if in its denominator there is:  
 (a) 2 or 5 (b) 3 or 5 (c) 9 or 11 (d) 3 or 7
15. If  $\frac{1}{7} = 0.\overline{142857}$ , then  $\frac{4}{7}$  equals  
 (a)  $0.\overline{428571}$  (b)  $0.\overline{571428}$  (c)  $0.\overline{857142}$  (d)  $0.\overline{285718}$
16. The value of n for which  $\sqrt{n}$  be a rational number is  
 (a) 2 (b) 4 (c) 3 (d) 5
17. The arrangement of  $\sqrt{2}, \sqrt{5}, \sqrt{3}$  in ascending order is  
 (a)  $\sqrt{2}, \sqrt{3}, \sqrt{5}$  (b)  $\sqrt{2}, \sqrt{5}, \sqrt{3}$  (c)  $\sqrt{5}, \sqrt{3}, \sqrt{2}$  (d)  $\sqrt{3}, \sqrt{2}, \sqrt{5}$
18. If  $\sqrt{10} = 3.162$ , then the value of  $\frac{1}{\sqrt{10}}$  is  
 (a) 0.3162 (b) 3.162 (c) 31.62 (d) 316.2

## NUMBER SYSTEM

1. Find six rational numbers between 3 and 4.
2. Find five rational numbers between  $\frac{3}{5}$  and  $\frac{4}{5}$ .
3. Represent the real number  $\sqrt{10}$  on the number line.
4. Represent the real number  $\sqrt{13}$  on the number line.
5. Represent the real number  $\sqrt{7}$  on the number line.
6. Represent the real number  $\sqrt{2}, \sqrt{3}, \sqrt{5}$  on a single number line.
7. Find two rational number and two irrational number between  $\sqrt{2}$  and  $\sqrt{3}$ .
8. Find the decimal expansions of  $\frac{10}{3}, \frac{7}{8}$  and  $\frac{1}{7}$ .
9. Show that 3.142678 is a rational number. In other words, express 3.142678 in the form of  $\frac{p}{q}$ , where p and q are integers and  $q \neq 0$ .
10. Show that  $0.3333\dots$  can be expressed in the form of  $\frac{p}{q}$ , where p and q are integers and  $q \neq 0$ .

11. Show that  $1.27272727\dots$  can be expressed in the form of  $\frac{p}{q}$ , where  $p$  and  $q$  are integers and  $q \neq 0$ .
12. Show that  $0.23535353\dots$  can be expressed in the form of  $\frac{p}{q}$ , where  $p$  and  $q$  are integers and  $q \neq 0$ .
13. Express the following in the form of  $\frac{p}{q}$ , where  $p$  and  $q$  are integers and  $q \neq 0$ .  
(i)  $0.\overline{6}$       (ii)  $0.4\overline{7}$       (iii)  $0.\overline{001}$       (iv)  $0.2\overline{6}$
14. Find three different irrational numbers between the rational numbers  $\frac{5}{7}$  and  $\frac{9}{11}$ .
15. Visualize the representation of  $5.3\overline{7}$  using successive magnification
16. Visualize  $4.\overline{26}$  on the number line, using successive magnification upto 4 decimal places.
17. Visualize  $3.76\overline{5}$  on the number line, using successive magnification.
18. Express  $0.6 + 0.\overline{7} + 0.4\overline{7}$  in the form of  $\frac{p}{q}$ , where  $p$  and  $q$  are integers and  $q \neq 0$ .
- .....



1. What is matter?
  2. Why is the rate of diffusion faster in gases?
  3. Name the phenomenon in which particles of two or more substances intermix on their own?
  4. Give an example of
    - a. liquid diffusing into a solid
    - b. solid diffusing into liquid
    - c. solid diffusing into solid
  5. name the characteristics which are responsible for
    - a. spreading of perfume in a room
    - b. water taking the shape of the vessel
  6. Give reasons
    - a. salt and sugar when kept in different jars take the shape of the jar, yet they are classified as solids why?
    - b. why do ice float on water even though it is a solid why?
  7. which produces severe burns, steam or hot water? give reason
  8. what is sublimation .explain it with the help of activity and draw
  9. Express the following temperature in kelvin scale
    - a. 35 degrees Celsius
    - b. 150 degrees Celsius
    - c. 83 degrees Celsiusconvert into Celsius scale
- 2) CONVERT INTO CELSIUS SCALE
- A. 470 K B. 520K C. 273K.

## PROJECT

## LESSON MATTER IN OUR SURROUNDINGS

## E-PROJECT

What are volatile substances? Name any five

Find out boiling and melting points of the following

Solid	Melting point
1. IRON	
2. GOLD	
3. ICE	
4. SILVER	
5. COPPER	

## FIND OUT BOILING POINT

LIQUID	BOILING POINT
1. WATER	
2. KEROSENE	
3. DIESEL	
4. ALCOHOL	
5. PETROL	