

**PRACTICE WORKSHEET-61****SUBJECT – MATHEMATICS****CLASS – IX****CHAPTER-01****(Number System)****SESSION - (2020-21)****Instructions to be followed: -**

**1: -From now onwards students do your worksheets in your particular subject notebook respectively. Don't use rough sheets, old copies or anything else. All the stationary shops have already opened. So, you can purchase it.**

**2: - All the students must complete their worksheets as Periodic test marks will be given to those who completes it else you will have to go through pen paper test after the school reopens.**

**3: - Read each and every topic (which will be given in worksheets) of the chapters from NCERT books.**

**4: - All the students must purchase NCERT books as it will help you to understand the chapter.**

**5: - If you have any query related to worksheet, ask your queries in WhatsApp group between 8:00 am to 3:00 pm.**

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**1. Let x be a rational number and y be an irrational number. Is x + y necessarily an irrational number? Give an example in support of your answer.**

**2. Is the product of two irrationals always irrational? Justify your answer.**

**3. Multiply:**

$$\sqrt{10} \text{ by } \sqrt{40}$$

**4. Simplify:**

$$\left( \frac{5}{7^6} \times 7^{\frac{2}{3}} \right)$$

**5. Simplify:**

$$\left[ \frac{1}{3^4} \right]^{\frac{1}{2}}$$

**6. Evaluate**

$$(1^3 + 2^3 + 3^3)^{\frac{1}{2}}$$

**7. Evaluate**

$$\frac{2^0 + 7^0}{5^0}$$

**8. If  $x = 3 + 2\sqrt{2}$ , check whether  $x + 1/x$  is rational or irrational.**

**9. Which of the following is a rational number?**

- (a)  $1 + \sqrt{3}$
- (b)  $\pi$
- (c)  $2\sqrt{3}$
- (d) 0

10. Which of the following is an irrational number?

- (a)  $\sqrt{23}$
- (b)  $\sqrt{225}$
- (c) 0.3799
- (d)  $7.\overline{478}$

For Solutions: <https://www.topperlearning.com/r-s-aggarwal-and-v-aggarwal-solutions/cbse-class-9-mathematics/r-s-aggarwal-and-v-aggarwal-mathematics-ix/number-systems>

**HARI VIDYA BHAWAN**  
**SUBJECT- SOCIAL SCIENCE**  
**CLASS – IX**  
**SESSION – 2020 – 21**  
**WORK SHEET - 61**

**Date –15-01-2021**

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**General Instructions: -**

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**Chapter 1: India- Size and Location**

**Short Questions:**

1. Write the size and extent of India.
2. The central location of India at the head of the ocean is considered of great significance?
3. What do you know about India and her neighbours?
4. Justify the naming of Indian Ocean after India.

## हरि विद्या भवन विषय हिंदी

### सामान्य - निर्देश

- ★ प्रस्तुत कार्य अपनी हिंदी व्याकरण की कार्यपुस्तिका में कीजिए।
- ★ सभी विद्यार्थियों को परीक्षा हेतु यह कार्य करना अनिवार्य है।
- ★ वर्कशीट में दिए गए पाठ को ध्यानपूर्वक पढ़िए।
- ★ वर्कशीट से संबंधित समस्या पूछने के लिए आप अपने व्हाट्सएप ग्रुप में सुबह 8:00 बजे से दोपहर 3:00 बजे तक पूछ सकते हैं।

हरि विद्या भवन  
कक्षा-दसवी  
विषय -हिंदी  
वर्कशीट-61

तारिख-15.1.21

पुनरावृत्ति कार्य  
( सूचना)

**सामान्य निर्देश :- दिया गया कार्य अपनी व्याकरण की कॉपी में करिए।**

प्रश्न-1. विद्यालय में आयोजित होने वाली वाद - विवाद प्रतियोगिता के लिए एक सूचना लगभग 50 शब्दों में साहित्यिक क्लब के सचिव की ओर से विद्यालय सूचना पट्ट के लिए लिखिए।

प्रश्न 2. आप विद्यालय के पुस्तकालय अध्यक्ष हैं। प्रधानाचार्य के आदेश से अपने विद्यालय के खुले रहने का समय 1 घंटा और बढ़ा दिया है इस सूचना को छात्रों को लिखित रूप में दीजिए।

प्रश्न-3. विद्यालय के वार्षिक दिवस की सूचना लिखें जिसमें उत्सव का समय,गणवेश तथा अभिभावकों के आने की जानकारी भी हो।

प्रश्न 3. विद्यालय परिसर में सफाई की व्यवस्था के लिए अपने स्तर पर विद्यार्थी क्या-क्या करें ,इसकी सूचना ,सूचना पट्ट के लिए लिखिए।

प्रश्न 4. आप सी.एस.ए.हायर सैकेंडरी स्कूल के प्रधानाचार्य हैं। विद्यालय की लेखन प्रतियोगिता होने जा रही है। छात्रों हेतु सूचना जारी कीजिए।

# HARI VIDYA BHAWAN

## Worksheet-61

### Class-X

### Subject-Science

### Session-2020-21

### (Practice Questions)

**Date: 15/01/2021**

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#### **Short Answer Type Question: -**

- Q.1 Write the formula and then balance the chemical equation.
- Q.2 Name the compound of calcium used for disinfecting water. Give its chemical formula.
- Q.3 Two lenses have power of  
a. +2D  
b -4D  
What is the nature and focal length of each lens?
- Q.4 Write the functions of lymph.

Q.5 Name the method by which Spirogyra reproduces under favourable conditions. Is this method sexual or asexual ?

Q.6 State any two reasons for using contraceptive devices.

Q.7 (a) Write the electron dot structures for potassium and chlorine.

(b) Show the formation of KCl by the transfer of electrons.

(c) Name the ions present in the compound, KCl.

Q.8 Is the position of a star as seen by us its true position? Justify your answer.

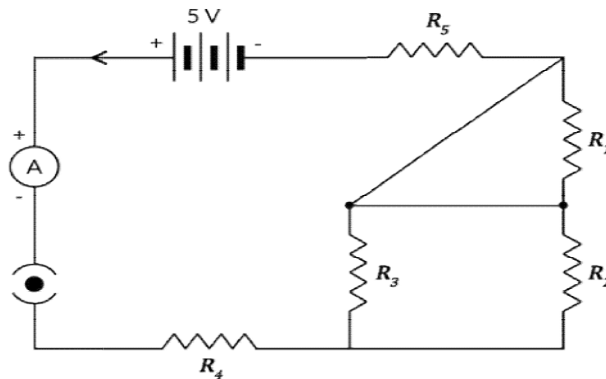
### Long Answer Type Question:

Q. 9 (i) State the relation between work, charge and potential difference for an electric circuit.

(ii) Calculate the potential difference between the two terminals of a battery if 100 J of work is required to transfer 20 C, charge from one terminal of the battery to the other.

(iii) Why are alloys commonly used in electrical heating devices? Give reason.

Q.10 Consider the following electric circuit.



(i) Which two resistors are connected in series?

(ii) Which two resistors are connected in parallel?

(iii) If every resistor is  $2 \Omega$ , what current will flow in the circuit?

### Note –

- This worksheet is for your self assessment. To solve the above questions read all the notes and NCERT books & try to answer them.
- All the practice worksheets have to be done in same notebook wherever you are writing notes.

