

*HOLIDAY
HOMEWORK
CLASS VIII
SESSION
2025-26*

ENGLISH

Holidays Homework Instructions:

1. Complete all assigned tasks and submit on the designated date.
2. Ensure neatness , clarity and organization in your work.
3. Follow specific guidelines for each task.
4. Use reference materials , textbooks or online resources as needed.
5. Seek parental / Guardian support if required.

Tips To Be Followed:

- Create a schedule to manage time effectively.
- Review & Revise work before submission
- Ask teachers for clarification if needed

By following these instructions , you'll make the most of your holiday homework and be well prepared for the upcoming academic session!

MODULE ONE (BBC)

Do Practice of Unseen Passage(Reading Section) Pg no 04 to Pg no 25 & Pg no 43 to Pg no 53

MODULE TWO (BBC)

Do Practice of Notice. Pg no 69 to 79

Diary Entry Pg no 88 to 92

Descriptive Paragraph Pg no 96 to 102

Revise all the writing section , which is done in Lang N.B & Grammar Topics , which is done in BBC

Literature (Learning Work) (Revise all the chapters & Poems Thoroughly Which is done in the class □ Dictation Words , Q / A , Ref. To Context along with Book Exercise)

CHAPTERS

- 1 The Portrait of a Lady
- 2 Idgah
- 3 The Man in the Train
4. I have a dream

Poems

- Somebody's Mother
- Geography Lesson
- Where the Mind is Without Fear

NOTE:

- 1 Students are directed to read English newspaper and magazines daily and update themselves with the current affairs.
2. Maintain a Notebook and write two new words everyday, along with current affairs.

Creative Writing

- 1 □ On A- 4 sheet write any ten suggestions about caring for working animals.
2. □ Collect any ten advertisements of indian brands from newspaper / magazines and paste in your grammar notebook.

3. □ Project Work

Make a file of Parts of Speech with Define of all Kinds along with word & sentence Example of each.

□ Make a file & write only format

■ Notice

■ Diary Entry

- Informal Letter
- Formal Letter
- Letter To Editor

Along with the format , also , write important points of each topic that should be kept in mind while writing.

Project cover page should be computerized &

All the Particulars should be mentioned on it like:

- **School name**
- **Project Title**
- **Subject**
- **Student's Name**
- Class & Sec. , Roll No**
- **Submitted To (Teacher's Name)**
- **Submitted By (Student's Name)**
- **Date of Submission**
- **Academic Year (2025-2026)**

SCIENCE

General Instructions:

1. **Plan your time wisely:** Don't leave the homework for the last minute.
2. **Neatness counts:** All written work must be done neatly using blue or black pen (for higher grades) or pencil & colour (for diagrams).
3. **Be original:** Avoid copying. Use your own words and creativity.
4. **Label properly:** Write your name, class, and subject clearly on all assignments.
5. **Organize well:** Use separate folders or files for each assignment.
6. **Submit on time.:** Bring all completed homework on that day after the holidays.

Assignment 1 :

Write and Draw neat and clean Concept Map of Chapter 5 to 14 on plain A4 sheet .

Assignment 2 :

Write Activities on assignment sheet that have mentioned.

- (i) Find out the rare species of plants and animals found there collect some pictures of plants and animals which do not find around you prepare an album.(pg 77)
- (ii) To observe a tadpole larva of a frog from lifecycle of frog.(Pg 89)
- (iii) To find out the growth of a boy and a girl.(pg 98)
- (iv) To show the effect of two or more forces applied on an object in the same direction.(pg112)
- (v) To show that liquids exert pressure on the walls of the container.(pg118)
- (vi) To show the effect of mass on the frictional force.(Pg129)
- (vii) To show that sound waves travel through liquids.(pg144)
- (viii) To test the electrical conductivity of some liquids .(pg155)
- (ix) To show that similar charges repel each other.(pg168)
- (x) To find out the number of images formed by two plane mirrors kept at different angles.(pg187)

2. Make a project report on Conservation of Biodiversity .(Rollno. 11 to 20)

3. Make a project report on Some Natural Phenomena.(Roll no.21 to 33)

SOCIAL STUDIES

1. Map of India:-

Locate and label the States and Union territories of India

2. Map of the World:-

Locate and label the seven continents and major oceans.

3. Poster making on Minerals Conservation and Sustainable Use.

4. Make a project file on Indian National Movement

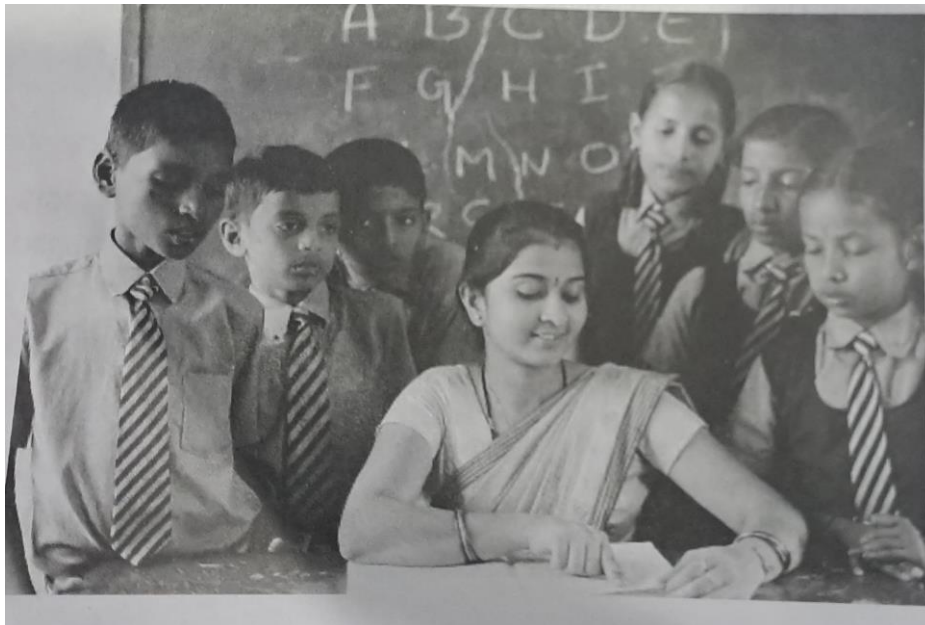
5. List out the problems faced by the people in rural and urban areas and suggest solutions to solve these problems.

6. Make a collage of framing of the Indian Constitution. Draw or paste pictures.

Use A4 size sheets for your Holidays Homework

Learn and revise all the completed chapters.

7. Picture Study



1. How many children are in the classroom?

2. How does education help in the overall development of children?

3. How does this picture represent the idea of the Right to Education (RTE)?

4. What do you think RTE means for children in the picture?

5. What can people do to support the implementation of the RTE Act?

HINDI

Do this work in note book.

Hindi lit (बसंत)- निम्न प्रश्नों के उत्तर लिखिए।

- 1) बदलू के मन में ऐसी कौन-सी व्यथा थी जो लेखक से छिपी ना रह सकी।
- 2) मशीनी युग से बदलू के जीवन में क्या बदलाव आया?
- 3) घर में मेहमान के आने पर आप उसका अतिथि सत्कार कैसे करेंगे?
- 4) आपको छुट्टियों में किसके घर जाना सबसे अच्छा लगता है? वहां की दिनचर्या अलग कैसे होती है? लिखिए।
- 5) लाख की वस्तुओं का निर्माण भारत के किन-किन राज्यों में होता है? लाख से चूड़ियों के अतिरिक्त क्या-क्या चीज बनाई जाती है?
- 6) "सविनय अवज्ञा आंदोलन" किसके नेतृत्व में, किस उद्देश्य से तथा कब हुआ था?
- 7) आप अपनी किसी यात्रा के खट्टे-मीठे अनुभवों को याद करते हुए एक लेख लिखिए।
- 8) लोगों ने लेखक और उसके मित्रों को क्या सलाह दी थी?
- 9) बस के पुलिया पर पहुंचने पर क्या हुआ?
- 10) "दीवानों की हस्ती" कविता में ऐसी कौन-सी बातें जो आपको सबसे अच्छी लगी।
- 11) जीवन में मस्ती होनी चाहिए, लेकिन कब मस्ती हानिकारक हो सकती है? लेख लिखिए।
- 12) कवि ने दीवाने किसे और क्यों कहा है?

(भारत की खोज)

- 1) आपके अनुसार भारत यूरोप की तुलना में तकनीकी-विकास की दौड़ में क्यों पीछे गया था?
- 2) सिंधु घाटी सभ्यता के अंत के बारे में अनेक विद्वानों के कई मत हैं आपके अनुसार इस सभ्यता का अंत कैसे हुआ होगा, तर्क सहित लिखिए।
- 3) उपनिषदों में बार-बार कहा गया है कि-"शरीर स्वस्थ हो, मन स्वस्थ हो और तन-मन दोनों अनुशासन में रहे।" आप अपने दैनिक क्रियाकलापों में इसे कितना लागू कर पाते हैं? लिखिए।

पञ-लेखन

- 1) मोदी सरकार द्वारा चलाए गए “स्वच्छता अभियान” के अंतर्गत अपने विद्यालय में किए जा रहे कार्यों के विषय में बताते हुए अपने मामा जी को पत्र लिखिए।
- 2) भाई को सत्संगति का महत्व बताते हुए पत्र।
- 3) छात्रों के लिए खेलोत्सव आयोजित करने का अनुरोध करते हुए प्रधानाचार्य को पत्र लिखिए।
- 4) आपकी कक्षा में छात्र विश्व पुस्तक मेला देखने जानना चाहते हैं। प्रधानाचार्य जी को पत्र लिखिए।
- 5) अपने क्षेत्र में बिजली संकट से उत्पन्न कठिनाइयों के विषय में जानकारी देते हुए विद्युत विभाग को पत्र लिखिए।

अपठित गद्यांश तथा उन पर आधारित प्रश्नोत्तर:-

(Do H.w copy)

Pg.no:-272:-1, pg.no:-273:-2,3 pg.no:-274:-4, Pg.no:-275:-5.

अनुच्छेद लेखन:- (Do H.W copy)

* जब आवै संतोष धन ,सब धन धूरि सामान

*बुरा जो देखन मैं चला

*स्वावलंबन

मुहावरे:---

- 1)अगर-मगर करना
- 2)आसमान टूट पडना
- 3)एक और एक ग्यारह होना
- 4)कलेजा ठंडा होना
- 5)गागर में सागर भरना
- 6) कलई खुलना
- 7)खाक में मिलना
- 8)कोल्हू का बैल

अनेक शब्दों के लिए एक शब्द लिखिए:-

- 1)जो देखने योग्य हो
- 2)जो भूमि उपजाऊ हो
- 3)जो दूर की सोचे
- 4)जो कम बोलता हो
- 5)जिसे जाना न जा सके

संधि-विच्छेद

सार+अंश, रेखा+अंकित, योगी+ईश्वर, सु+उक्ति,

लघु+ऊष्मा, वधू+उल्लेख, वधू+ऊर्जा, परि+ईक्षा, कवि+इंद्र, नदी+ईश

Activity work:--

1) A4 sheet पर लाख की वस्तुओं का निर्माण भारत के किन-किन राज्यों में होता है? लाख से चूड़ियों के अतिरिक्त क्या-क्या चीज बनती है? चित्रण कीजिए।

2) A4 sheet पर भाषा व उसके भेदों का चित्रण कीजिए।

3) 'हमारे जीवन में डाकिए की भूमिका' क्या है? चित्र सहित इस विषय पर 10 वाक्य लिखिए।

Enjoy your holidays & have fun. The weather temperature is rising, avoid going outside & intake drinking water regularly.

PUNJABI

*Learn all work done in book and note book.

*Do all work in separate note book.

1. ਹੇਠ ਲਿਖੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਪਾਠ ਪੁਸਤਕ ਦੇ ਆਧਾਰ ਤੇ ਦਿਓ -

ਕ) ਰੁਜ਼ਗਾਰ ਜਾਂ ਕਿੱਤਾ ਕਿਸ ਨੂੰ ਆਖਦੇ ਹਨ ?

ਖ) ਸ਼ੋਪਿੰਗ ਮਾਲ ਤੇ ਆਮ ਦੁਕਾਨ ਵਿੱਚ ਕੀ ਅੰਤਰ ਹੈ ?

ਗ) ਖੇਤੀ ਕਰਨ ਵਿੱਚ ਕਿਸਾਨ ਦੀ ਸਹਾਇਤਾ ਕੌਣ -ਕੌਣ ਕਰਦਾ ਹੈ?

ਘ) ਸੂਰਜ ਕੀ ਹੈ? ਇਸ ਤੋਂ ਸਾਨੂੰ ਕੀ -ਕੀ ਲਾਭ ਹੁੰਦੇ ਹਨ?

ਙ) ਸ਼ਾਪਿੰਗ ਮਾਲ ਵਿੱਚ ਸਮਾਨ ਕਿਵੇਂ ਖਰੀਦਿਆ ਜਾਂਦਾ ਹੈ?

ਚ) ਸੁਰਾਹੀ ਕੀ ਹੁੰਦੀ ਹੈ ? ਅੱਜ ਇਸ ਦੀ ਥਾਂ ਕਿਸ ਨੇ ਲੈ ਲਈ ਹੈ?

ਛ) ਸਾਡੇ ਦੇਸ਼ ਦੇ ਕੌਮੀ ਝੰਡੇ ਦਾ ਕੀ ਨਾਂ ਹੈ ? ਇਸ ਵਿੱਚ ਕਿੰਨੇ ਰੰਗ ਹਨ ਅਤੇ ਹਰ ਇੱਕ ਰੰਗ ਕਿਸ ਦਾ ਪ੍ਰਤੀਕ ਹੈ ?

ਜ) ਪੇੜਾ ਕਿਸ ਨੂੰ ਕਹਿੰਦੇ ਹਨ? ਇਸ ਤੋਂ ਕੀ ਬਣਦਾ ਹੈ?

ਝ) ਆਂਡਿਆਂ ਦੀ ਚੋਰੀ ਕਹਾਣੀ ਦੇ ਆਧਾਰ ਤੇ ਦੱਸੋ ਕਿ ਆਂਡਿਆਂ ਦੀ ਚੋਰੀ ਕੌਣ ਕਰਦਾ ਹੈ? ਵ) ਸਮਾਜਿਕ ਅਪਰਾਧ ਕੀ ਹੁੰਦੇ ਹਨ ਤੇ ਇਹਨਾਂ ਤੋਂ ਕਿਵੇਂ ਬਚਿਆ ਜਾ ਸਕਦਾ ਹੈ?

2. ਹੇਠ ਲਿਖੇ ਵਿਸ਼ਿਆਂ ਤੇ ਲੇਖ ਲਿਖੋ ਕੰਪਿਊਟਰ, ਸ੍ਰੀ ਹਰਿਮੰਦਰ ਸਾਹਿਬ ,

ਮੇਰਾ ਮਨ ਭਾਉਂਦਾ ਅਧਿਆਪਕ,

ਵਿਸਾਖੀ ਦਾ ਮੇਲਾ, ਪ੍ਰਦੂਸ਼ਣ

3. ਕਹਾਣੀ ਲੇਖਣ:-

ਸਿਆਣਾ ਖਰਗੋਸ਼ , ਕਬੂਤਰ ਅਤੇ ਸ਼ਿਕਾਰੀ , ਆਜ਼ਾਦੀ ਅਤੇ ਸ਼ੇਰ, ਦੇ ਮਿੱਤਰ ਅਤੇ ਰਿੱਛ

4. ਹੇਠ ਲਿਖੇ ਬਿਨੇ ਪੱਤਰ ਅਤੇ ਚਿੱਠੀ ਪੱਤਰ ਲਿਖੋ :-

*ਭੈਣ ਦੇ ਵਿਆਹ ਲਈ ਮੁੱਖ ਅਧਿਆਪਕਾ ਜੀ ਤੋਂ ਚਾਰ ਦਿਨ ਦੀ ਛੁੱਟੀ ਮੰਗੋ ।

੦*ਤੁਹਾਡੇ ਪਿਤਾ ਜੀ ਦੀ ਬਦਲੀ ਚੰਡੀਗੜ੍ਹ ਹੋ ਗਈ ਹੈ। ਪ੍ਰਿੰਸੀਪਲ ਮੈਡਮ ਨੂੰ ਸਕੂਲ ਛੱਡਣ ਦਾ ਸਰਟੀਫਿਕੇਟ ਲੈਣ ਲਈ ਬੇਨਤੀਪੱਤਰ ਲਿਖੋ *ਪੱਤਰ ਲਿਖ ਕੇ ਆਪਣੇ ਮਿੱਤਰ ਨੂੰ ਮਨ ਲਗਾ ਕੇ ਪੜ੍ਹਾਈ ਕਰਨ ਲਈ ਆਖੋ ।

*ਪੱਤਰ ਲਿਖ ਕੇ ਆਪਣੇ ਚਾਚਾ ਜੀ ਨੂੰ ਆਪਣੇ ਨਵੇਂ ਸਕੂਲ ਬਾਰੇ ਦੱਸੋ । ਆਪਣੇ ਸਕੂਲ ਦੇ ਮੁੱਖ *ਅਧਿਆਪਕਾ ਜੀ ਨੂੰ ਫੀਸ ਮਾਫੀ ਲਈ ਬਿਨੇ ਪੱਤਰ ਲਿਖੋ।

Activities

1. ਸੋਹਨੀ ਸਵੇਰ ਕਵਿਤਾ ਨੂੰ ਚਿੱਤਰ ਸਹਿਤ A4 ਸੀਟ ਤੇ ਲਿਖੋ।
2. ਕਿਸਾਨ ਦਾ ਚਿੱਤਰ A4 ਸੀਟ ਤੇ ਬਣਾ ਕੇ ਉਸ ਦੇ ਕਿੱਤੇ ਬਾਰੇ ਜਾਣਕਾਰੀ ਦਿਓ।
3. ਕਿਸੇ ਪੰਜ ਕੁਦਰਤੀ ਦ੍ਰਿਸ਼ ਦੀਆਂ ਤਸਵੀਰਾਂ ਲਗਾ ਕੇ ਉਹਨਾਂ ਬਾਰੇ ਤਿੰਨ ਚਾਰ ਲਾਈਨਾਂ ਵਿੱਚ ਲਿਖੋ ।
4. ਕਿਸੇ ਇਕ ਰਾਸ਼ਟਰੀ ਚਿੰਨ ਦੀ ਤਸਵੀਰ A4 ਸੀਟ ਤੇ ਲਗਾ ਕੇ ਉਸ ਬਾਰੇ 15-20 ਸ਼ਬਦਾਂ ਵਿੱਚ ਲਿਖੋ ।
5. ਰੁੱਤਾਂ ਦੀ ਰਾਣੀ ਬਸੰਤ ਰੁੱਤ ਤੇ ਕੋਈ ਇੱਕ ਲੇਖ ਲਿਖੋ।

SANSKRIT

- 1-अभ्यास पुस्तिका व पुस्तक में कराया गया संपूर्ण कार्य याद करें।
- 2-अपनी अभिव्यक्ति को प्रस्तुत करते हुए संस्कृत क्रियाकलाप का कार्य पूर्ण करें।
- 3-प्रथम पाठ से पंचम पाठ में से पांच चित्र बनाकर उनका परिचय दें।
- 4- व्याकरण में कराए गए शब्द रूपों और धातु रूपों को याद करें।
- 5- बाल नचिकेता की कहानी संस्कृत अथवा हिंदी में लिखें।
- 6-संस्कृत में पांच श्लोकों के ए4 सीट पर लिखकर कंठस्थ करें।
- 7-संस्कृत में किसी महापुरुष का चित्र बनाकर उनके बारे में लिखें? और सरस्वती मां की एक तस्वीर बनाएं।
- 8-चंद्रगुप्त के न्याय के बारे में संस्कृत में एक पेज लिखें।

(v) विघ्नभयेन के कार्य न प्रारभन्ते?

(क) मध्याः

(ख) नीचाः

(ग) उत्तमाः

(घ) नकेडपि

2. श्लोकांशान् मेलयत। श्लोकांशों को मिलाइए। Match the parts of the shlokas.

(क)

(ख)

(i) ते मृत्युलोके भुवि भारभूताः,

(क) परोपकारेण न चन्दनेन।

(ii) साहित्य-संगीतकलाविहीनः,

(ख) किं जीवितेन पुरुषस्य निरक्षरेण।

(iii) विधाति कायः करुणापराणाम्,

(ग) प्रारभ्य चोत्तमजनाः न परित्यजन्ति,

(iv) विघ्नैः पुनः पुनरपि प्रतिहन्यमानाः,

(घ) साक्षात्पशुः पुच्छ-विषाणहीनः।

(v) मित्रेण किं व्यसनकालपराङ्मुखेन,

(ङ) मनुष्यरूपेण मृगाश्चरन्ति।

3. विकल्पेभ्यः समस्तपदानि चित्वा लिखत। विकल्पों से समस्त पद चुनकर लिखिए। Select and write the combined words from the options.

यथा - सेवायाः धर्मः - (क) धर्मसेवा (ख) सेवधर्मः (ग) सेवधर्मः (घ) सेवकधर्मः

उत्तरम् - (ख) सेवधर्मः

(i) नीतौ निपुणाः

(क) नीतिनिपुणाः (ख) निपुणनीतिः (ग) निपुणनीतौ (घ) नीतिनैपुण्यम्

(ii) पुच्छेन विषाणाभ्यां च हीनाः

(क) पुच्छहीनाः (ख) विषाणहीनाः (ग) पुच्छविषाणहीनाः (घ) पुच्छविषाणविहीनाः

(iii) वाचि पटुता

(क) वाक्यपटुता (ख) वाच्यपटुता (ग) वाग्पटुता (घ) वाक्पटुता

(iv) उत्तमाः च ते जनाः

(क) उत्तमाजनाः (ख) उत्तमजनाः (ग) उत्तजनाः (घ) उज्जनाः

(v) विघ्नानां भयेन

(क) विघ्नभयेन (ख) विघ्नैः भयेन (ग) विघ्न भयम् (घ) विघ्नेन भयेन

4. प्रकृति-प्रत्ययसंयोगेन वाक्यानि पूरयत। प्रकृति-प्रत्यय जोड़कर वाक्य पूरे कीजिए। Join the root and suffix and complete the sentences.

यथा - सः (खाद् + शत्) गच्छति।

सः खादन् गच्छति।

(i) विद्या (हा + क्त) नरः न शोभते।

.....

(ii) (गम् + क्त) वसन्ते कोकिलविरुतेन किम्?

.....

(iii) सदा स्वार्थं (परि + त्यज् + ल्यप्) कार्यं करणीयम्।

.....

(iv) निरक्षरपुरुषस्य (जीव् + क्त) किम्?

.....

(v) उत्तमजनाः (प्र + आ + रभ् + ल्यप्) न परित्यजन्ति।

.....

दिए गए श्लोकों से हम क्या मूल्य सीखते हैं? सही विकल्प चुनकर उत्तर दीजिए। What values do we learn from the shlokas given in the lesson? Choose the correct option to tell.

- (i) महात्मानः अभ्युदये किं कुर्वन्ति?
(क) क्षमाम् (ख) दयाम् (ग) धर्मम् (घ) दानम्
- (ii) श्रोत्रस्य वास्तविकं भूषणं किम् अस्ति?
(क) चन्दनम् (ख) कुण्डलम् (ग) शास्त्रम् (घ) श्रुतम्
- (iii) विघ्नभयेन के कार्यं न आरभन्ते?
(क) उत्तमाः (ख) मध्यमाः (ग) अधमाः (घ) नीचाः
- (iv) कीदृशस्य पुरुषस्य जीवनं निरर्थकं भवति?
(क) नीचस्य (ख) दुष्टस्य (ग) निरक्षरस्य (घ) निर्धनस्य
- (v) दीपे निर्वापिते सति कस्य दानं वृथा भवति?
(क) जलस्य (ख) धनस्य (ग) पयसः (घ) तैलस्य

MATHS

Revision work : Revise ch-1, 2,3 and 6 full work done in book and notebook.

Written Work : • Do all examples of ch1,2,3 and 6.

- Higher order thinking skill (HOTS) question from ch-1,2,3 and 6.
- Do given assignments of ch-1, 2,3 and 6.

Note : Do all written work in separate notebook.

Project Work : Make Mind Map of ch-1, 2,3 and 6 on A3 size sheet.

Chart work : Make a chart according to your roll number.

- » Rational Number [Roll no.1 to 10]
- » Law of Exponent [Roll no. 11 to 20]
- » Identities of Factorisation [21 to onwards]

Activity Work : Make working model of "Square and Square root " [Roll no 1 to 15]

Make working model of " Pythagoras Theorem " [Roll no 16 to onwards]

ASSIGNMENT 1

Chapter 1: Rational Numbers

Worksheet-I

1. What should be added to $-5/4$ to get -1 ?
(I) $-1/4$ (II) $1/4$ (III) 1 (IV) $-3/4$
2. What should be subtracted from $-5/4$ to get -1 ?
(I) $-1/4$ (II) $1/4$ (III) 1 (IV) $-3/4$
3. Which of the following is the identity element?
(I) 1 (II) -1 (III) 0 (IV) None of these
4. Which of the following is the Multiplicative identity for rational numbers?
(I) 1 (II) -1 (III) 0 (IV) None of these
5. Which of the following is neither appositive nor a negative rational number?
(I) 1 (II) 0 (III) Such a rational number does not exist
(IV) None of these
6. Which of the following lies between 0 and -1 ?
(I) 0 (II) -3 (III) $-2/3$ (IV) $4/3$
7. Which of the following is the reciprocal of a ?
(I) $-a$ (II) a (III) $1/a$ (IV) $-1/a$
8. Which of the following is the product of $7/8$ and $-4/21$?
(I) $-1/6$ (II) $1/12$ (III) $-16/63$ (IV) $-147/16$
9. Which of the following is the product of $(-7/8)$ and $4/21$?
(I) $-1/6$ (II) 12 (III) $-63/16$ (IV) $-16/147$

10. Which of the following is the reciprocal of the reciprocal of a rational number?

- (I) -1 (II) 1 (III) 0 (IV) The number itself

Worksheet-II

1. Associative property is not followed by which type of numbers?

2. _____ is the identity for the addition of rational numbers.

- (a) 1 (b) 0 (c) 1 (d) 1

3. What is the multiplicative identity for rational numbers?

4. What is the additive inverse of $\frac{3}{5}$?

5. How many reciprocals does zero have?

6. Write.

- (i) The rational number that does not have any reciprocal at all.
- (ii) The rational numbers those are equal to their reciprocals.
- (iii) The rational number that is equal to its negative.

7. Give a rational number which when added to it gives the same number.

8. By what rational number should $\frac{22}{7}$ be divided, to get the number - $\frac{11}{24}$?

9. Represent the following rational numbers on the number line.

- (i) $\frac{3}{10}$ (ii) $\frac{8}{7}$ (iii) 1.345 (iv) $\frac{21}{7}$

10. If you subtract $\frac{1}{8}$ from a number and multiply the result by $\frac{1}{4}$, you get $\frac{1}{16}$. What is the number?

11. Which of the following can be expressed as terminating or non - terminating?

- (a) $\frac{1}{3}$ (b) $-\frac{14}{15}$ (c) $-\frac{38}{81}$

12. Find two rational numbers between (i) -3 and 3. (ii) 0 and 1.

13. Insert six rational numbers between:

- (i) $-\frac{1}{4}$ and $-\frac{2}{5}$ (ii) $\frac{21}{12}$ and $\frac{12}{21}$.

14. Find two rational and two irrational numbers between $\frac{1}{8}$ and $\frac{2}{9}$.

Worksheet-III

1. Write three rational numbers occurring between $\frac{1}{3}$ and $\frac{4}{5}$.
2. Multiply the negative of $\frac{2}{3}$ by the inverse of $\frac{9}{7}$.
3. What should be added to $-\frac{16}{3}$ to make it $\frac{1}{9}$?
4. What should be subtracted from $\frac{5}{8}$ to make it -1 ?
5. Write different properties of a rational number.
6. Represent $\frac{3}{4}$ and $\frac{8}{9}$ on a number line.
7. Find the greater of the two $-\frac{12}{5}$ and $\frac{4}{9}$.
8. Multiply the negative of $\frac{29}{2}$ by its inverse.
9. Write a rational number equivalent to $\frac{9}{10}$ having 90 as numerator.
10. Write a rational number equivalent to $\frac{18}{29}$ having 87 as denominator.
11. Write $\frac{2}{3}$, $-\frac{4}{9}$, $-\frac{8}{11}$ in ascending order.
12. Write $\frac{2}{3}$, $-\frac{4}{9}$, $-\frac{8}{11}$ in descending order.
13. Fill in the blanks:
 - (i) The product of a number and its product is _____.
 - (ii) The rational number _____ has no reciprocal.
 - (iii) The reciprocal of the reciprocal of a number is _____.
 - (iv) The rational number _____ is neither positive nor negative.
 - (v) _____ is the only rational number which is equals its additive inverse.
14. Write:
 - (i) A rational number which has no reciprocal.
 - (ii) A rational number whose product with a given rational number is equal to the given rational number.
 - (iii) A rational number which is equal to its reciprocal.
15. Find three rational number between $\frac{3}{7}$ and $\frac{2}{3}$

16. The product of two rational numbers is $-\frac{28}{81}$. If one of them is $-\frac{2}{3}$ then find the other.
17. Find $\frac{3}{7} + (-\frac{6}{11}) + (-\frac{8}{21}) + \frac{5}{22}$
18. Write additive inverse of the following:
(a) $-\frac{7}{19}$ (b) $\frac{21}{112}$
19. Verify that $-(-x) = x$ for
(a) $x = \frac{11}{15}$ (b) $x = -\frac{13}{17}$
20. Represent $-\frac{2}{11}, -\frac{5}{11}, -\frac{9}{11}$ on the number line.
21. Write five rational numbers which are smaller than 2.
22. Write all properties of rational numbers.
23. Write definition of rational numbers. Give three examples.
24. What is the additive identity of rational numbers?
25. What is the multiplicative identity of rational numbers?

ASSIGNMENT 2

EXPONENTS AND POWER

1. Simplify $(\frac{1}{3^2})^3$.
2. Evaluate: $(5^{-1} \times 8^2) / (2^{-3} \times 10^{-1})$.
3. Find the value of 'm' for which $6^m / 6^{-3} = 6^{57}$
4. Evaluate $[(\frac{1}{2})^{-1} - (\frac{1}{3})^{-1}]^{-1}$.
5. Simplify: $(-3)^5 \times (\frac{5}{3})^5$.
6. Compare 7×10^{-6} and 129×10^{-7} .
7. The size of a plant cell is 0.00001275 m express it in standard form.
8. If the thickness of a paper sheet is 0.0016 cm, find the thickness of 100 sheets. Express the answer in standard form.
9. Find the value of $5^{-3} \times \frac{1}{5^3}$.
10. Simplify $2^5 / 2^{-6}$.
11. Express 4^{-3} as a power with base 2.
12. Simplify and write the answer in exponential form: $(2^5 / 2^8)^5 \times 2^{-5}$.
13. Find the value of $(\frac{2}{3})^{-2}$.
14. Simplify: $(\frac{5}{8})^{-7} \times (\frac{8}{5})^{-5}$.
15. Simplify $(-4)^{-10} \times (-4)^5$
16. What is the reciprocal of 0.1?
17. What is the value of x in $5^x + 5^{-3} = 5^5$?
18. Evaluate
 1. 2^{-2}
 2. $(-2)^{-2}$
 3. $(\frac{3}{2})^{-5}$
19. Simplify and express the result in power notation with positive exponent.
 - (i) $(-2)^5 \div (-2)^4$
 - (ii) $(\frac{1}{2})^2 \times (\frac{2}{5})^2$
 - (iii) $(-5)^2 \times (\frac{3}{5})$
20. Find the value of.
 - (i) $(4^0 + 4^{-1}) \times 2^2$
 - (ii) $(3^{-1} \times 9^{-1}) \div 3^{-2}$
 - (iii) $(11^{-1} + 12^{-1} + 13^{-1})^0$
21. Find the value of m for which $2^m \div 2^{-4} = 4^5$
22. Express the following numbers in standard form.
 - (i) 0.0000000015
 - (ii) 0.00000001425

Question 23. Express the following numbers in usual form.

- (i) 34.02×10^{-5}
- (ii) 9.5×10^5
- (iii) 9×10^{-4}
- (iv) 2.0001×10^8

ASSIGNMENT 3(SQUARE & SQUARE ROOT)

1. What will be the unit digit of the squares of the following numbers?
(a) 81 (b) 272 (c) 799 (d) 96980
2. The squares of which of the following would be odd numbers?
(a) 431 (b) 2826 (c) 7779 (d) 82004
3. Express the perfect square numbers as sum of odd numbers
(a) 49 (b) 36
4. How many non square numbers lie between squares of the following numbers?
(a) 12 and 13 (b) 25 and 26
5. Find the square root by prime factorization method
(a) 1296 (b) 2601
6. Find the smallest whole number by which the following numbers should be multiplied so as to get a perfect square number. Also find the square root of the square number so obtained.
(a) 252 (b) 180 (c) 1008 (d) 1458
7. Find the smallest whole number by which the following numbers should be divided so as to get a perfect square. Also find the square root of the square number so obtained.
(a) 2925 (b) 396 (c) 2645 (d) 1620
8. Find the square root by long division method
(a) 290521 (b) 56644
9. Find the least number which must be subtracted from each of the following numbers so as to get a perfect square. Also find the square root of the perfect square so obtained.
(a) 402 (b) 1989 (c) 3250 (d) 825
10. Find the least number which must be added to each of the following numbers so as to get a perfect square. Also find the square root of the perfect square so obtained.
(a) 525 (b) 1750 (c) 1825 (d) 6412
11. Find the square root of the following decimal numbers.
(a) 2.56 (b) 7.29 (c) 51.84 (d) 42.25

ASSIGNMENT ON SQUARES AND SQUARE ROOTS

Class : VIII

(Above Average)

Q1. Evaluate:

(i) $\frac{\sqrt{243}}{\sqrt{363}}$ (ii) $\sqrt{98} \times \sqrt{162}$

Q2. Evaluate: $\sqrt{20/3}$

Q3. Using properties of squares and square roots calculate: $200^2 - 198^2$

Q4. . By what least number should 735 be multiplied so that the product is a perfect square. Find the square root of the product so obtained.

Q5. Find the least number divisible by each one of 8,9,10

Q6. Find the cost of erecting a fence around a square field whose area is 9 hectares, if fencing costs ₹ 35 per meter.

Q7. What least number must be added to 6321 to make the sum a perfect square? Find this perfect square and its square root.

Q8. Find the length of each side of a square whose area is equal to the area of a rectangle of length 13.6 m and breadth 3.4 m.

Q9. A general wishing to draw his 64029 men in the form of a square found that he had 20 men extra. Find the number of men in the front row.

Q10. Simplify: $\frac{\sqrt{0.0441}}{\sqrt{0.000441}}$

ASSIGNMENT 4

TOPIC- FACTORISATION

1. Factorise the following:

- i) $2b(3a - c) + 12ac - b^2$
- ii) $12(2x - 3y)^2 - 16(3y - 2x)$
- iii) $y^2 - y(3a - b) - 3ab$
- iv) $6ab - b^2 + 12ac - 2bc$
- v) $81x^2 + 90xy + 25y^2$
- vi) $x^4 - y^4$
- vii) $a^{12}x^4 - a^4x^{12}$
- viii) $z^2 + \frac{1}{z^2} + 2$
- ix) $9 - 6x + x^2$
- x) $81 - 4x^2$
- xi) $m^4 - 256$
- xii) $9x^2 - (2a - 3b)^2$
- xiii) $25 - 4a^2 - 12ab - 9b^2$
- xiv) $x^2 + 11x + 24$
- xv) $x^2 + 15x + 56$
- xvi) $x^2 - 2x - 15$
- xvii) $x^2 + x - 12$
- xviii) $4x^2 + 9y^2 + 12xy - 64z^2$
- xix) $36p^2 + 6p + \frac{1}{4}$
- xx) $\frac{1}{25}x^2 - \frac{1}{36}y^2$

2. Factorise the expression and divide them as directed:

- i) $96abc(3a - 12)(5b - 30)$ by $144(a - 4)(b - 6)$
- ii) $44(x^4 - 5x^3 - 24x^2)$ by $11x(x - 8)$
- iii) $4m^2 - 16mn + 16n^2$ by $2(m - 2n)$
- iv) $4yz(z^2 + 6z - 16)$ by $2y(z + 8)$
- v) $39y^3(50y^2 - 98)$ by $26y^2(5y + 7)$

DRAWING

1. Draw a Mandala Art in your Art File by using (sketch pens , pens)
2. Draw a different types of flowers by using water colours or painting colours .
3. Make a CD painting with the help of painting .
4. Complete all topic of Book and Notebook done in a class

COMPUTER

Assignment 1: Computer Networking

◆ 1 Mark Questions (Answer in one sentence)

1. What is a computer network?
2. Name any two components used in networking.
3. What does LAN stand for?
4. Define wireless networking.
5. Name one protocol used for sending emails.
6. Mention one advantage of networking.
7. What is the role of a router?
8. Define IP address.
9. What type of cable is used in wired networking?
10. Name any one wireless technology.
11. How modem does work?

◆ 2 Marks Questions (Answer in 2–3 sentences)

1. Differentiate between LAN and WAN.
2. What is the function of a switch in a network?
3. How is a wireless network different from a wired network?
4. Explain the use of a modem.
5. Mention two advantages of networking.
6. What is network security?
7. Name and explain two types of internet protocols.
8. What are hubs and how are they used?
9. Define MAN and give one example of where it can be used.
10. Explain the term "network topology."

◆ 3 Marks Questions (Answer in 5-6 lines)

1. Compare and contrast wired and wireless networking.
2. Describe the importance of IP addresses.
3. Explain any three advantages of computer networking.

◆ Project Work

Prepare a PowerPoint Presentation or Chart on:

- "Types of Networking with Diagrams and Real-Life Examples"

■ Assignment 2: Cyber Safety and Security

◆ 1 Mark Questions (Answer in one sentence)

1. What is cyber safety?
2. Name any one malware.
3. Define phishing.
4. What is hacking?
5. Give an example of unsafe browsing.
6. What is social engineering?
7. Define cyber bullying.
8. What do you understand by cyber ethics?
9. Name one cyber law in India.
10. What does a firewall do?
11. What is a cyberspace?

◆ 2 Marks Questions (Answer in 2–3 sentences)

1. Mention two common types of malware.
2. How can children stay safe online?
3. Explain the term "cyber threat" with examples.
4. What is the impact of cyber bullying?
5. Define ransomware and give one real-world example.
6. List two precautions for safe web browsing.
7. What do you understand by "social engineering" in cybersecurity?
8. Why is it important to follow cyber ethics?
9. Mention two cyber laws that help prevent online crimes.
10. How can you identify a phishing attempt?

◆ 3 Marks Questions

1. Describe three types of cyber threats with examples.
2. Explain how hacking is done and how it can be prevented.
3. What is the role of antivirus software?
4. Describe three safety tips to follow while using social media.
5. Discuss the impact of malware on computer systems.

◆ Project Work

Security Checklist for Safe Browsing"

- Make a step-by-step checklist chart:
 - Update antivirus, don't click unknown links, use strong passwords, etc.
- Turn it into a printed guide or visual reminder for others.