St. Mary's School, Dwarka
Holiday Homework
Class: VIII
Worksheet 1

Subject: English

General Instructions:
1) The work should be done neatly and systematically.
2) The given questions are to be done in the English notebook.
3) Attempt all questions.

No. of questions: 10   M.M. 25

Q1. Read the following passage.

1. Transportation has come a long way since humans relied solely on walking or animal-drawn carts. Over thousands of years, humans have developed various means of transportation that have made travel faster, safer, and more convenient.

2. In ancient times, people used simple methods to move from one place to another. Walking was the most common way to travel, but animals, such as horses, donkeys, and camels, were also used to carry goods and passengers. The invention of the wheel around 3500 B.C. was a turning point, as it allowed people to create carts and chariots, which made travel much easier.

3. As civilisations advanced, so did their transportation systems. The ancient Egyptians, Greeks, and Romans built extensive road networks to facilitate trade and military movements. The Romans constructed well-paved roads that connected cities and regions, which became the backbone of their empire. These roads were the forerunners of modern highways.

4. The Industrial Revolution in the 18th century marked another major advancement in transportation. The invention of the steam engine led to the development of steam-powered trains and boats. Railroads were constructed across countries, connecting cities and regions like never before. Steamships made it possible to travel long distances over water at greater speeds. The invention of the automobile in the late 19th century brought even greater change, allowing individuals to travel independently.

5. In the 20th century, the development of airplanes revolutionised long-distance travel. Airplanes made it possible to cross continents in just a few hours. The rise of mass transit systems in urban areas, such as buses and subways, allowed people to travel more easily within cities.

6. Today, transportation continues to evolve with innovations such as electric cars, high-speed trains, and even self-driving vehicles. With advancements in technology, modern travel is becoming increasingly fast, efficient, and sustainable. The future of transportation holds exciting possibilities, including flying cars and hyperloop systems.

Based on your understanding of the passage, answer the questions given below.   (1x5=5)
i. According to the passage, the invention of the wheel around 3500 B.C. was important because it _____.   (1)
a) helped people to create roads
b) led to the creation of carts and chariots
c) made it easier to travel on foot
d) allowed people to travel across the seas

ii. What does the word 'forerunner' in the passage most likely mean?   (1)
a) historical figure
b) past ancestor
c) prior event
d) motor vehicle

iii. How did the steam engine contribute to the development of transportation?   (1)

iv. According to the passage, which of the following statements is NOT true?   (1)
a) The Romans built roads to facilitate trade and military movement.
b) The automobile was invented before the steam engine.
c) Airplanes made long-distance travel faster.
d) Mass transit systems help people travel within cities.

v. Replace the underlined word with its antonym from paragraph 6.   (1)
 I realised that late-night studying was unproductive for me.

Q2. You are Ritika/Rahul, residing at 45-B, Green Valley Apartments, Rohini. You recently attended a Science Exhibition held at Pragati Maidan and found it extremely exciting and informative. Write a letter to your friend Niharika in about 100-120 words, sharing your experience, describing what you saw there, and encouraging her to attend such events in the future.   (3)

Q3. Fill in the blanks with the appropriate word.   **(½ x 4=2)**

When Meera (i) _____ to the hill station last summer, she (ii) _____ a group of trekkers
who (iii) _____ up the mountain trails every morning. She (iv) _____ to join them one
day and had the most thrilling experience of her life.

a. goes	nt	d gone	ing
a. met	eet	as meeting	ets
a. climb	mbed	mbs	re climbing
a. decided	d decided	cides	as deciding

Q4. Combine the two sentences into a single sentence.   **(2)**
i. He was injured. He continued playing the match.
ii. They saw a tiger. They ran away immediately.

Q5. Read the given extract to attempt the questions that follow.   **(2)**
While I stand on the roadway, or on the pavements grey,
I hear it in the deep heart's core.

i. What does the phrase 'pavements grey' symbolise in the poem?   **(1)**
a) beauty of the city
b) dullness of urban life
c) path to Innisfree
d) poet's happy memories

ii. What feeling dominates the poet's mood in these lines?   **(1)**

a) joyful excitement
 b) regret and guilt
 c) longing and inner peace
 d) anger at city life

Q6. Who were the Yup'ik who settled in Newtok? (Answer in 30-40 words)   **(2)**

**Q7. Why did the narrator regret paying attention to the sound of footsteps in the lesson 'The
Night the Ghost Got In'? (Answer in 30-40 words)**   **(2)**

Q8. What are the references the poet has made to touch upon the sense of sound which evokes a longing in him in the poem The Lake Isle of Innisfree? (Answer in 30-40 words) **(2)**

Q9. Why did the students act with such restraint in the lesson 'The Narayanpur Incident'? (Answer in 40-60 words) **(3)**

Activity:

Q10. Create a poster on an A4-size sheet illustrating peaceful ways to express patriotism.

- **Use symbols and images to promote unity and national pride.**
- **Include a clear title and a short, meaningful slogan that reflects the spirit of peaceful patriotism.**
 (2)

Subject: Hindi

निर्देश — 1 दिए गए सभी प्रश्नों के उत्तर हिन्दी की उत्तर पुस्तिका में लिखिए।

2 कार्य स्वच्छ शुद्ध एवं स्पष्ट लेख में कीजिए।

प्रश्न 1 निम्नलिखित अपठित गद्यांश को पढ़कर इसके आधार पर सर्वाधिक उपयुक्त उत्तर वाले विकल्प चुनकर लिखिए — (1×5=5)

महात्मा गाँधी के अनुसार असहयोग का उद्देश्य बुराई को बढ़ावा देना नहीं है बल्कि बुराई से असहयोग करना है। अगर दुनिया बुराई को बढ़ावा देना बंद कर दे तो बुराई अपने लिए आवश्यक पोषण के अभाव में अपने-आप मर जाएगी। अगर हम यह देखने की कोशिश करें कि आज समाज में जो बुराई है, उसके लिए खुद हम कितने जिम्मेदार हैं तो हम देखेंगे कि समाज से बुराई कितनी जल्दी दूर हो जाती हैं। लेकिन हम प्रेम की एक झूठी भावना में पड़कर इसे सहन करते हैं। मैं उस पुत्र और पिता के प्रेम की बात नहीं करता, जिसे पिता अपने गलत रास्ते पर चल रहे पुत्र पर मोह में अंधा होकर प्यार बरसाता चला जाता है और उसकी पीठ थपथपाता है और न ही मैं उस पुत्र की बात कर रहा हूँ जो झूठी पितृभक्ति के कारण अपने पिता के दोषों को सहन करता है। मैं ऐसे प्रेम की चर्चा नहीं कर रहा हूँ। मैं तो उस प्रेम की बात कर रहा हूँ, जो विवेकयुक्त है और जो बुद्धियुक्त है और जो एक भी गलती की ओर से आँख बंद नहीं करता हो। गाँधी जी का यह सुधारने वाला प्रेम है।

(i) महात्मा गाँधी के अनुसार असहयोग का उद्देश्य क्या है?

(क) बुराई को बढ़ावा देना

(ख) बुराई से असहयोग करना

(ग) बुराई से सहयोग करना

(घ) हिंसा करना

(ii) दुनिया से बुराई स्वयं कैसे समाप्त हो सकती है?

(क) आवश्यक पोषण के अभाव में

(ख) अच्छाई के अभाव में

(ग) बुराई के प्रभाव में

(घ) आवश्यक पोषण के प्रभाव में

(iii) निम्नलिखित कथन (A) तथा कारण (R) को ध्यानपूर्वक पढ़कर उचित विकल्प का चयन कीजिए—

कथन (A) गाँधी जी के अनुसार प्रेम विवेकयुक्त और बुद्धियुक्त नहीं होता है।

कारण (R) गाँधी जी के अनुसार यह सुधारने वाला प्रेम है।

(क) कथन (A)तथा कारण (R) दोनों गलत हैं।

(ख) कथन (A)गलत है तथा कारण (R) सही है।

(ग) कथन (A)सही है लेकिन कारण (R) गलत है।

(घ) कथन (A)तथा कारण (R) दोनों सही हैं।तथा कारण (R) कथन (A)की गलत व्याख्या करता है।

(iv) मनुष्य प्रेम की झूठी भावना में पड़कर क्या करता है?

(v) इस गद्यांश में लेखक किस प्रेम की बात कर रहे हैं?

निम्नलिखित प्रश्नों के उत्तर दीजिए— (1×5=5)

प्रश्न 2 संज्ञा की विशेषता बताने वाला शब्द क्या कहलाता है?

प्रश्न 3 'मैंने आज शोर को देखा'।प्रयुक्त वाक्य में से कौन-सा शब्द जातिवाचक संज्ञा है ?

प्रश्न 4 अर्थ के आधार पर क्रिया के कितने भेद होते हैं? उनके नाम लिखिए।

प्रश्न 5 'अरूण' शब्द का अनेकार्थी शब्द क्या होगा?

प्रश्न 6 'घोड़े बेचकर सोना'मुहावरे का अर्थ क्या होगा?

प्रश्न-7 निम्नलिखित प्रश्नों के उत्तर दीजिए— (1½×2=3)

(**क**) बचपन में लेखक अपने मामा के गाँव चाव से क्यों जाता था?आपको अपने मामा के घर जाना कैसा लगता है?

(**ख**) दीवानों की हस्ती नामक कविता की कौन -सी बात आपको अच्छी लगी ?

प्रश्न 8 निम्नलिखित प्रश्नों के उत्तर दीजिए— (1×2=2)

(**क**) सिद्धार्थ का नाम सिद्धार्थ कैसे पड़ा?

(**ख**) सिद्धार्थ ने आश्रम क्यों छोड़ा ?

प्रश्न-9 संकेत बिंदुओं के आधार पर ' व्यायाम का महत्त्व' विषय पर 80 से 100 शब्दों का एक अनुच्छेद लिखिए— (5×1=5)

संकेत बिंदु — 1 आवश्यकता 2 उदाहरण 3 लाभ 4 निष्कर्ष

प्रश्न-10 संज्ञा के भेदों का नाम लिखते हुए एक सुन्दर सा वॉल हैंगिंग बनाइए। (5×1=5)

Subject- Sanskrit

निर्देश–   1 प्रदत्त प्रश्नानाम् उत्तरम् संस्कृत पुस्तिकायाम् एव लिखत।
         2 प्रश्नानाम उत्तरम् पूर्णवाक्येन लिखित्वा रिक्तस्थानानि रेखांकित करणीय।
         3 कार्यम् स्वच्छं ,शुद्धं एवं स्पष्टं लेखम् एव लेखनीय।

प्रश्न 1 अधोलिखितं गद्यांशं पठित्वा बहुविकल्पकान् प्रश्नान् उत्तरत – $(1×5=5)$

दिल्ली नगरम् अतीव प्राचीनम् ऐतिहासिकं च अस्ति। अस्य पुरातनं नाम 'इन्द्रप्रस्थः'आसीत्।एतत् पाण्डवानां राज्यस्य राजधानी आसीत्।अद्यत्वे अपि इदं स्वतंत्र भारतस्य राजधानी अस्ति।अस्माकम् राष्ट्रपतिः, केन्द्रीयशासनस्य सर्व उन्नताः अधिकारिणः, विदेशानां च प्रतिनिधिः अत्र एव निवसन्ति।दिल्लीनगरे भारतस्य विविधप्रदेशानाम् जनाः सुगमतया द्रष्टुं शक्यन्ते।दिल्लीनगरस्य प्राचीनभागः प्राचीनदिल्ली नाम्ना वर्तते।तत्र च 'चाँदनी चौक', 'लालकिला','जामा मस्जिद''यमुना सेतु', 'राजघाट', नामकानि च दर्शनीयानि स्थानानि।प्राचीन दिल्लीभागस्यभवनानि प्राचीनरीत्या निर्मितानि सन्ति।तत्र भारतस्य संस्कृतिः कला च मुखरिता भवति।दिल्लीनगरस्य नवीनभाग 'नवदिल्ली' नाम्ना प्रख्यातः वर्तते।तत्र जन्तु आगारः, बिरलामन्दिरं, यन्त्रमन्त्रं, कुतुबमीनारं, च प्रसिद्धानिस्थानानि सन्ति।यदा दिल्लीनगरे 'एशियाड द्वाशीतिः' आयोजनम् अभवत् ,तस्मात् एव आयोजनात् अस्य नगरस्य शोभा अतीव वृद्धिं गता।अत्र विविधानि विशालानि क्रीडास्थालानि नेहरू –नेशनल –इन्द्रप्रस्थ– स्टेडियम् आदीनि सुनिर्मितानि सन्ति।उच्चैः पारगमनपथाः रमणीयाः प्रतीयन्ते।नवदिल्लीनगरे मार्गाः सुविस्तृताः ,सुबद्धाः,स्वच्छाः च वर्तन्ते।रात्रौ अत्र विविधानां प्रकाशदण्डानां प्रकाशः सर्वत्र शोभते।पालमस्थितं वायुयानस्थानम् अति दर्शनीयम् अस्ति।दिल्लीनगरं व्यापारस्य,उद्योगानां च अपि केन्द्रम् अस्ति।अतः एतत् नगरं अति समृद्धं, वैभवपूर्णम् ,मनोरमं च अस्ति।

(i) भारतवर्षस्य राजधानी का अस्ति?
   (क) लालकिला
   (ख) राजघाट
   (ग) कुतुबमीनारम्
   (घ) दिल्ली नगरम्

(ii) उच्चैः पारगमनपथाः कीदृशाः प्रतीयन्ते ?
    (क) रमणीयाः
   (ख) असुन्दरः

(ग) भव्यः

(घ) संकीर्णम्

(iii) पालमस्थितं किम् स्थानम् अति दर्शनीयम् अस्ति ?

(क) बसयानम् स्थानम्

(ख) जलयानम् स्थानम्

(ग) वायुयानम् स्थानम्

(घ) रेलयानम् स्थानम्

(iv) इन्द्रप्रस्थः केषाम् राज्यस्य राजधानी आसीत् ?

(क) पाण्डवानाम्

(ख) यदुवंशानाम्

(ग) बौद्धानाम्

(घ) कौरवानाम्

(v) 'नवीनम्' 'परतन्त्रः' इति पदयोः विलोम पदम् किम् अस्ति?

(क) प्रवीनम् ,स्वतंत्रः

(ख) प्राचीनम् ,परातन्त्रः

(ग) प्राचीनम् ,स्वतंत्रः

(घ) प्राचीनम् ,राजतंत्रः

प्रश्न 2 चित्रं दृष्ट्वा मञ्जूषायां प्रदत्त पदानाम् सहायतया रिक्तस्थानानि पूरयत-($\frac{1}{2}×4=2$)

मञ्जूषा = पुस्तकालयः , पुस्तकानि , ग्रन्थाः , छात्राः

(क) अस्मिन् चित्रे एकः ------ अस्ति।

(ख) अत्र विभिन्नानि   ------ सन्ति।
(ग) ------ पुस्तकानि पठन्ति।
(घ) पुस्तकालये अनेकायाः भाषायाः ------ सन्ति।

प्रश्न 3 स्वकक्षा अध्यापकस्य वर्णनं कुर्वन् पितरम् प्रति लिखितं इदम् पत्रम् मञ्जूषायाः उचितैः
पदैः पूरयत।   (½×6=3)

मञ्जूषा– स्वभावः, माध्यमेन , चरणस्पर्श , आदर्शः ,कुशलं , मधुर वचनम्   ।

नवदिल्लीतः
तिथिः– **12•06•2025**

आदरणीय पिताश्री

सादर [1]------ ।

अत्र [2]------ तत्रास्तु। अस्मिन् पत्रै अहम् निजकक्षा अध्यापकस्य वर्णनं करोमि। मम कक्षा
अध्यापकः अति विद्वान् अस्ति। तस्य [3] ------ अतीव सरलः अस्ति। सः निजविषये निपुणः
अस्ति। सः विभिन्न उदाहरणेन [4]------ अस्मान् पाठयति। सः शिक्षायुक्ता रूचिकरा च कथा
अपि श्रावयति। सः सदैव [5]------ वदति। वस्तुतः सः एव मम [6]------ अस्ति। पुनः
निजविषये विस्तरेण कथयिष्यामि। सर्वेभ्यः नमः।

भवताम्
गौरवः

प्रश्न 4 अधोलिखिते संवादे मञ्जूषायाः उचितपदानि चित्वा रिक्तस्थानानि पूरयन्तु। (½×4=2)

मञ्जूषा– यानेन , सप्तवादने , बसयानेन , कदा

रविः - हे सुधे! त्वम् विद्यालयम् कदा गच्छसि ?
सुधा – अहम् प्रातः [1]------ विद्यालयम् गच्छामि ।
रविः - त्वम् केन [2]------ विद्यालयम् गच्छसि ?
सुधा – अहम् [3]------ विद्यालयम् गच्छामि।
रविः - त्वम् विद्यालयात् [4]------ प्रत्यागच्छसि ?
सुधा - अहम् त्रिवादने विद्यालयात् आगच्छामि।

प्रश्न 5 मञ्जूषायां प्रदत्तैः उचित अव्ययपदैः रिक्तस्थानानि पूरयत —   (½×4=2)

यथा ,   कति , एकदा , प्राक्

1 ——— व्याधः वने आखेटाय अगच्छत्।

2 ——— मर्यादापुरूषोत्तम रामः नाम राजा आसीत्।

3 ——— धनिकः तथा सेवकः।

4 तव समीपे ——— पुष्पाणि सन्ति।

प्रश्न 6 अधोलिखितेषु रिक्तस्थानेषु प्रकृति प्रत्ययं संयोज्य वाक्यपूर्तिं कुरूत– ($\frac{1}{2}×2=1$)

1 रमा विनोदकणिका ——— (श्रु + क्त्वा) उच्चैः हसति ।

2 सैनिकः सदैव देशस्य रक्षा ——— (कृ + तुमुन्) तत्परः भवन्ति।

प्रश्न 7 रेखांकित पदम् आधृत्य प्रश्नं निर्मीयताम् — ($\frac{1}{2}×2=1$)

(1) सर्वाणि पत्राणि **चलदूरभाषयन्त्रै** सुरक्षितानि भवन्ति।

(2) **गुहायाः** स्वामी शृगालः आसीत्।

प्रश्न 8 शब्दानाम् अर्थैः लिखत — ($\frac{1}{2}×4=2$)

महीरूहाः , जरा , कर्गदस्य , पथि

प्रश्न 9 उचितपदं चित्वा रिक्तस्थानानि पूरयत — ($\frac{1}{2}×4=2$)

मञ्जूषा – परमम् , सहसा , चल , छात्राय

(क) त्वम् विद्यालयं ....।

(ख) तद्भागदेयं .... पशूनाम्।

(ग) .... पुस्तकम् देहि।

(घ) .... विद्धीत न क्रियाम्।

परियोजना कार्य

प्रश्न 10 गीता का एक श्लोक लिखकर पुस्तक चिह्न बनाइए। ($5×1=5$)

Class 8 Worksheet 1

Subject: Mathematics

General Instructions:

1) The work should be done neatly and systematically.

2) The given questions are to be done in the Math notebook.

3) Attempt all questions.

No. of questions: 10   M.M. 25

Q1. State whether the following are True/False: (0.5 x 4 = 2)

a) Rational numbers are not closed under division, if zero is excluded, then the collection of all other rational numbers is closed under division.

b) For any rational number a, a $\div$ 0 is not defined.

c) A rational number a/b is called the multiplicative inverse of another rational number   c/d if a/b x   c/d= 0.

d) A number which can be written in the form p/q , where p and q are whole numbers and q is not equal to 0 is called a rational number.

Q2. Choose the correct option: (1x2 = 2)

i)   Which of the following is the reciprocal of the reciprocal of a rational number?

a)   -1   b) 1   c) 0   d) The number itself

ii)   Write down the rational number whose numerator is (-3) $\times$ 4, and whose denominator is (34 - 23) $\times$ (7 - 4).

a)   -7/34   b) -7/33   c) -12/33   d) 12/33

Q3 . Name the property that is reflected in the following expression: (0.5x4 =2)

    a)   5/11 x 11/5 =1

    b) 24/10 x 5/6 = 5/6 x 24/10

    c)   5 + (-5) = 0

    d)   99 x 58 = 100 x58 – 1 x 58

Q4. Find 4 rational numbers between

$-\frac{1}{4}$ and $-\frac{1}{3}$.

(2)

Q5. Verify the property: $x \times (y + z) = x \times y + x \times z$

    For x = -3/7 , y = 12/13 ,Z = -5/6   (2)

Q6. Evaluate the following using distributive property :   (2)

$\frac{7}{9} \times \left(-\frac{1}{2}\right) - \frac{7}{9} \times \left(-\frac{3}{2}\right)$

Q7. Arrange the following rational numbers in ascending order and find the difference between the least and the greatest rational number .   (3)

    -19/40 , 14/8 , -17/10 , 34/16 , 18/40 , -11/80

Class 8 Worksheet 1

Q8. Represent the following rational numbers on a number line : (1.5 x 2 =3)

a) $\dfrac{7}{8} , \dfrac{-2}{4} , \dfrac{5}{2} , \dfrac{-4}{16}$ b) $\dfrac{3}{7} , \dfrac{1}{14} , -\dfrac{1}{2}$

Q9. Find the sum using suitable property: (1.5 x 2 =3)

(i) 4/3 + 3/5 + (-2/3) + (-11/5)

(ii) (-8/3) + (-1/4) + (-11/6) + 3/8
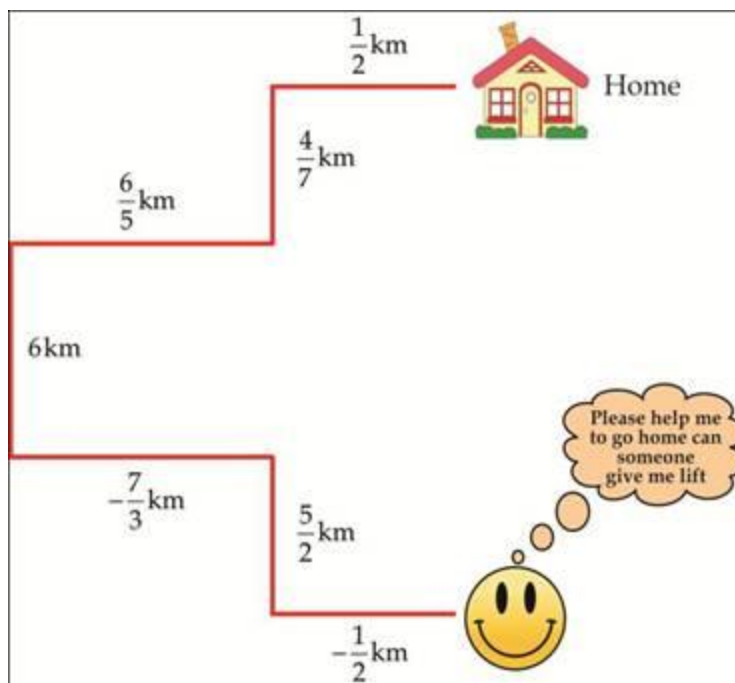
Activity:

Way to home :

Description: (4)

Activity to be done on A-4 Size coloured sheet.

Negative distance means distance in opposite direction.

Rohan wants to give lift to an old lady and drop her to home. Find how much distance should he have to cover.

Class 8 Worksheet 1

Subject: Science

General Instructions

* Neatly write the answers in a separate thin notebook.
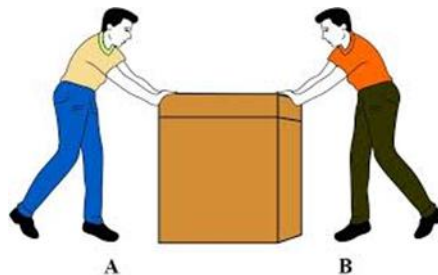
* Attempt the questions keeping in mind the weightage of each question.

No. of questions: 10   M.M. 25

Q1. In the figure given below, two boys A and B are shown applying force on a block. If the block moves towards the right, which one of the following statements is correct?   (1)

(A) Magnitude of force applied by A is greater than that of B.

(B) Magnitude of force applied by A is smaller than that of B.

(C) Net force on the block is towards A.

(D) Magnitude of force applied by A is equal to that of B.

Q2. Coal was formed about how many years ago?   (1)

(A) 100 million years

(B) 200 million years

(C) 300 million years

(D) 400 million years

Q3. **Assertion (A):** Weeds are unwanted plants that grow in fields and interfere with the growth of main crops.

Reason (R): Weeds can be controlled by spraying pesticides.   (1)

(A) Both assertion and reason are true, and reason is the correct explanation of the assertion.

(B) Both assertion and reason are true, but the reason is not the correct explanation of the assertion.

(C) The Assertion is true, but the reason is false.

(D) The Assertion is false, but the reason is true.

Q4. A blacksmith hammers a hot piece of iron to shape it. Identify the type of force the blacksmith applies to the iron. Is this force a contact force or a non-contact force?   (2)

Q5. Crude oil is not used directly. Why do you think fractional distillation is important in refining petroleum? Explain with examples of useful products

(2)

Q6. A cylindrical water tank rests on a horizontal base with an area of 2 cm^2. The weight of the water in the tank is 4000 N. (3)

(A) The water in the cylindrical tank exerts a force on the base of the tank. What type of force is this? Is it a contact force or a non-contact force?

(B) Calculate the pressure exerted by the water on the base of the tank in Pascals.

Q7. Your city is facing high air pollution levels due to excessive use of petrol and diesel vehicles. Propose a scientifically informed plan to reduce pollution: (3)

    (A) What are the harmful effects of petrol and diesel on the environment?
    (B) List and explain two clean energy alternatives for transport.
    (C) Suggest changes that individual can make to reduce fuel consumption.

Q8. In the given picture, two methods of irrigation are observed. Identify the type of irrigation system being used. Compare and analyze which of the two methods should be practiced in a region with uneven land. (3)

Q9. A farmer used three different types of tools for tilling the soil in three different fields. The farmer records the time taken to complete tilling in each field using different tools. **(1+1+2=4)**

Field	Tools	Time taken
A	Plough	8 hours
B	Hoe	6 hours, 30 minutes
C	Cultivator	2 hours

A. Which tool/ tools should the farmer use to till his field?

B. After a few months, it was observed that all the fields had the same productivity despite using different tools. What is the likely reason for this?

C. What are the benefits of using a cultivator for tilling the soil in comparison to the plough?

Q10. Objective: To analyze real-world data on petrol consumption in a major Indian city and understand the effects of urbanization, policy changes, and transportation habits on fuel demand.

The following table shows the annual petrol consumption (in million litres) in a major Indian city from 2016 to 2022, reflecting growing urbanization and changes in transportation habits.

(1+1+2+1=5)

S. No.	Year	Petrol Consumption (Million Litres)
1	2016	450
2	2017	470
3	2018	495
4	2019	520
5	2020	480
6	2021	510
7	2022	530

(A) Plot the petrol consumption for each year on a graph, using the year on the X-axis and consumption in million litres on the Y-axis.

(B) Examine your graph:
1. Is there a general increase, decrease, or fluctuation in petrol consumption over the years?
2. Analyze the overall trend in petrol consumption.
(C) Identify any unexpected dips or unusual spikes in consumption. Research and suggest two possible real-world reasons behind these fluctuations.
(D)Based on the pattern in your graph, estimate what the petrol consumption might be in 2025.

Subject: Social Science

General Instructions:

- The work should be done neatly and in a systematic way.
- The given assignments are to be done in the History and Geography notebook.
- Mention the number of worksheets while doing the work.
- Write all the questions along with the answers.

Q1. How has historian APJ Taylor described history?   1

Q2. What is a constitution?   1

Q3. From which country's constitution the concept of Directive Principles of state Policy

   adapted in the Indian Constitution?   1

Q4. Make a G.O. of the different literary Sources of the modern period.   2

Q5. What was the problem with the periodization of Indian history that James Mill made? 2

Q6. Write any two reasons to explain the importance of the Constitution.   2

Q7. Differentiate between natural and human made resources.   2

Q8. Explain the factors that gave rise to the Indian National Movement?   3

Q9. Which Fundamental Rights will the following situations violate?   3

   i) If a 13 years old child is working in a factory manufacturing carpets.

   ii) If a politician in one state decides not to allow labourers from other states to work in his

       state.

   iii) If a group of people is not given permission to open a Telugu medium school in Kerala.

Q10. Why is conservation of resources necessary?

   List any two methods to conserve them.   3

Project based Activity Geography   5
Environmental Protection and Air Quality

Guidelines: Submission Format:
- Activity should be done neatly in geography notebook only; typed notes will not be accepted.
- Learners should clearly write the headings for each part.
- Photos should be pasted clearly.

Objectives: Learn about air quality issues, government policies, personal responsibilities, and take action to improve air quality.

Activity Instructions:
Research Air Quality Initiatives:
Research and write a short report on at least two current or proposed ways or government policies aimed at improving air quality in your city.
- Include the name of the policy/initiative
- Describe how it works
- Mention who is responsible for implementing it

Learn About PUC (Pollution Under Control) Certificate
Answer the following:
a. What is a PUC Certificate?
b. Why is the PUC Certificate important?
c. What is the test required to obtain a PUC Certificate?

PUC Certificate Example
Request a family member or relative to show you their four-wheeler's PUC certificate. Paste a clear photo or scan of the certificate in your notebook. (Make sure vehicle details like number plates are blurred or covered for privacy.)

Green Action: Air-Purifying Plants
Plant air-purifying plants such as Sansevieria (Snake Plant) or other recommended varieties in and around your home.
a. Take photos of you planting the saplings.
b. Paste the photos in your notebook or create a collage.

Reflection
Write a short report about:
- How planting air-purifying plants can help improve air quality.
- How you plan to care for the plants in the future.

Subject: Computer Science

General Instructions:

- The work should be done neatly and in a systematic way.
- The given assignments are to be done in the Computer Science notebook.

Find the output of the following program code.   (2x5=10)

```
1. Num1=125          Num2 = 450
   Read Num1
   Read Num2
   if Num1>Num2 then
     print("Num1 is greater")
   else
     print("Num2 is greater")
```

```
2. marks = 45.5
   Read marks
   if marks > 70 then
     print("Good Work")
   else
     print("Satisfactory")
```

```
3.
   age=20
   if age>=12 AND age<=19 then
     print("You are a teenager")
   else
     print("You are an adult")
```

```
4.
   Shop=650
   Customer="new"
   if Shop<200 OR Customer="old" then
     print("Eligible for discount")
   else
    print("Not Eligible for discount")
```

```
5.
   userid="operation"
   password="flood@7"
   if userid="operation" OR password ="FLOOD@7" then
     print("Match Successful")
   else
    print("Match Not Successful ")
```

Class 8 Worksheet 1

6. What is a loop? Differentiate between Counting and conditional loop.   3

7. Define conditional statement? Draw a flowchart to explain the conditional statements.   3

8. Why is AND operator different from OR operator? Explain with an example.   3

9. Choose the correct option.   3

i) Which of the following logical operators returns True only if both of its operands are True?

(a) OR   (b) AND   (c) NOT   (d) XOR

ii) Consider the statement: "If it is raining, then the ground is wet." Which of the following
    scenarios makes this statement False?

(a) It is raining, and the ground is wet.
(b) It is not raining, and the ground is dry.
(c) It is raining, and the ground is dry.
(d) It is not raining, and the ground is wet.

iii) Consider the following conditions:

   Condition X: The number is greater than 10.
   Condition Y: The number is even.
   Which of the following numbers satisfies the condition "Condition X" AND "NOT Condition Y"?

(a) 12   (b) 15   (c) 8   (d) 20

10. Mention any three benefits of using loops.   3

Activity:
Note:
   ❖ Open the MS Word document and list all the practical questions.
   ❖ Capture a screenshot (snip) of the MakeCode Arcade programming workspace along with
      the game simulator.
   ❖ Paste the screenshot below each corresponding practical question.
   ❖ Save the document as a PDF file.
   ❖ Upload the **PDF under the ASSIGNMENT section in Microsoft Teams.**

Design a block code programming using MakeCode Arcade for the following questions.
Practical 1: Using AND operator, check that the entered number lies within the range 10 to 20.
Practical 2: Using OR operator, check if the fruit is either an apple or an orange.

Class 8 Worksheet 1

Subject: Elementary Mathematics

General Instructions:
1) The work should be done neatly and systematically.
2) The given questions are to be done in the Math notebook.
3) Attempt all questions.

No. of questions: 10   M.M. 25

Q1   Choose the correct option :   (1x 4)

(i) Which number is the successor of 69999

   a) 26349   b) 9999   c) 70000   d) 99999

(ii) Which number is the predecessor of 29998

     a) 29997   b) 99999   c) 72159   d) 29999

(iii) Which Roman numeral is correct for 49

     a) XCIX   b) XLIX   c) LXVIII   d) XL

(iv) Which Hindu-Arabic numeral is correct for LXV

     a)   60   b) 70   c) 65   d) 90

Q2   Write the numerals: (1×3)

     I.   Eighty two thousand five hundred sixty two

     II.   Seven hundred twenty three thousand five hundred ninety two

    III.   Eight million two hundred six

Q3   Write the successor and predecessor of these numbers.   (1×3)

     I.   **---------**   399999   **---------**

     II.   **---------** 7000001   **---------**

     III.   **---------** 3590000   **----------**

Q4   Write the numbers in its expanded form.   (1×2)

     I.   1,92,732

     II.   30,063

Q5   Arrange the following numbers in the ascending order: (2×1)

     612856; 721612; 92936; 121579

Q6   Arrange the following numbers in descending order: (2×1)

     3125261; 1321570; 1321750; 213261

Q7   Write the following numbers in Roman numerals: (1×2)

     I.   99

     II.   67

Q8   Write the following in Hindu- Arabic numerals: (1×2)

     I.   LXXIV

     II.   LIX

Class 8 Worksheet 1

Q9 Write the smallest and the greatest possible numbers using   (1x2)
   each of the digits only once:
           I.   6,3,9,8,1,0
           II.   8,0,5,2,1,3,7

Activity:
Q10 Collect contact numbers of your 5 family members and   (3x1)
   Rewrite the numbers in the international system.