

# HOLIDAY HOMEWORK WORKSHEET (MATHEMATICS)

Chapter -1 (Rational Numbers)

Class VII

Q1) In each of the following cases , write the rational number whose numerator and denominator are respectively as below :

(i)  $35 \div (-7)$  and  $35 - 18$  (ii)  $(-4) \times 6$  and  $8 \div 2$  (iii)  $(-3) \times 4$  and  $10 \times (7-4)$ .

Q2) Express each of the following rational numbers in the standard form :

(i)  $\frac{8}{28}$  (ii)  $\frac{14}{-49}$  (iii)  $\frac{-16}{-56}$

Q3) Express  $\frac{3}{4}$  as a rational number with numerator 36.

Q4) Express  $\frac{-48}{60}$  as a rational number with denominator 5.

Q5) Express  $\frac{168}{-294}$  as a rational number with denominator 14.

Q6) Show that the rational numbers  $\frac{-15}{35}$  and  $\frac{4}{-6}$  are not equal.

Q7) Find the value of X and Y in the following :

$$\frac{-5}{7} = \frac{X}{35} = \frac{Y}{49}$$

Q8) Fill in the boxes :  $\frac{-6}{11} = \frac{3}{55}$  .

Q9) Arrange the following rational numbers in ascending order :

$$\frac{-7}{10}, \frac{5}{-8}, \frac{2}{-3}, \frac{-1}{4}, \frac{-3}{5}$$

Q10) Arrange the following rational numbers in descending order :

(i)  $\frac{-3}{-5}, \frac{17}{30}, \frac{-8}{15}, \frac{7}{-10}$

(ii)  $\frac{-4}{9}, \frac{5}{-12}, \frac{7}{-18}, \frac{2}{-3}$

Q11) Represent the following rational numbers on a same number line :

$$\frac{-5}{8}, \frac{4}{8}, \frac{3}{8}, \frac{-7}{8}$$

Q12) Represent the rational numbers  $\frac{5}{3}$  and  $\frac{5}{-3}$  on the same number line.

Q13) Represent the following rational numbers on a number line:

(i)  $\frac{-7}{4}$  (ii)  $\frac{8}{5}$  (iii)  $\frac{9}{2}$  (iv)  $\frac{10}{-3}$

Q14) Which is greater rational number ?  $\frac{-26}{7}$  or  $\frac{-28}{9}$ .

Q15) Find an equivalent form of given rational number having a common denominator :

$$\frac{-5}{7}, \frac{3}{8}, \frac{9}{14}, \frac{20}{21}$$

## CHAPTER-2: OPERATIONS ON RATIONAL NUMBERS

**Q1. Simplify:**

$$(i) \frac{-5}{12} + \frac{5}{18} - \frac{7}{24} \quad (ii) \frac{-3}{5} - \frac{(-4)}{15} - \frac{7}{10} + \frac{9}{25}$$

**Q2. The sum of two numbers is  $\frac{-4}{3}$ . If one of them is  $-5$ . Find the other**

**Q3. Verify  $x + y = y + x$  for the following values of  $x$  and  $y$ :**

$$(i) x = \frac{-3}{14}, y = \frac{-1}{21} \quad (ii) x = \frac{7}{15}, y = \frac{-4}{25}$$

**Q4. By taking  $x = \frac{3}{2}$  and  $y = \frac{-4}{5}$ , verify that  $x \div y \neq y \div x$ .**

**Q5. Multiply and express the result as a rational number in standard form:**

$$(i) \frac{-6}{11} \text{ by } \frac{-55}{36} \quad (ii) \frac{-5}{9} \text{ by } \frac{72}{125}$$

**Q6. For the following values of  $x$ ,  $y$  and  $z$ , find the products  $(x \times y) \times z$  and  $x \times (y \times z)$  and observe the result  $(x \times y) \times z = x \times (y \times z)$ :**

$$(i) x = \frac{-3}{14}, y = \frac{-7}{16}, z = \frac{2}{9} \quad (ii) x = \frac{-4}{7}, y = \frac{-5}{24}, z = \frac{8}{25}$$

**Q7. Find the reciprocal of  $\frac{4}{3} \times \frac{-9}{16}$ .**

**Q8. Verify that  $(x \times y)^{-1} = x^{-1} \times y^{-1}$  by taking  $x = \frac{-7}{4}$ ,  $y = \frac{5}{4}$**

**Q9. The product of two rational numbers is  $\frac{-28}{81}$ . If one of the numbers is  $\frac{14}{27}$ , find the Other number.**

**Q10. What number should be added to  $\frac{-5}{11}$  so as to get  $\frac{26}{33}$ ?**

**Q11. Find three rational numbers between  $\frac{-7}{11}$  and  $\frac{13}{11}$ .**

**Q12. By what number should we multiply  $\frac{-3}{14}$ , so that the product may be  $\frac{5}{12}$ .**

**Q13. Verify  $x + (y + z) = (x + y) + z$  for the following values of  $x$  and  $y$ :**

$$(i) x = \frac{4}{3}, y = \frac{-5}{6}, z = \frac{-7}{9} \quad (ii) x = \frac{-8}{25}, y = \frac{3}{10}, z = \frac{2}{15}$$

### REFERENCE TO CONTEXT

Read the extracts given below and answer the questions that follow.

- 1) I'd rather sleep in the ivy wall;  
No rain comes through, tho' I hear it fall  
The sun peeps gay at dawn of day,  
And I sing, and wing away, away!
  - a) Name the poet and the poem.
  - b) Who is 'I' in the above lines.
  - c) Ivy is a plant. What does the bird want to convey by describing it as a wall?
  - d) What does the speaker prefer ivy wall to?
  
- 2) And joy, like a pearl,  
Attend the needs of mankind.
  - a) Name the poem and the poet.
  - b) What has joy been compared to?
  - c) What is the significance of this comparison?
  
- 3) Dear friend what shall I do,  
To prove the warm affection I've always felt for you  
I have within my pantry, a good store of all that's nice  
I'm sure you're very welcome, will you please to take a slice?
  - a) Name the poet and the poem.
  - b) Who is the speaker of these lines?
  - c) How does 'he' in these lines, try to lure the fly?
  - d) How does the fly react to the offer made by him?
  
- 4) Everyone that flatters thee,  
Is no friend in misery.  
Words are easy like the wind,  
Faithful friends are hard to find.
  - a. Identify the poem and the poet.
  - b. What does the poet mentions about a faithful friend?
  - c. What are 'words' compared to?

### VALUE BASED QUESTIONS

- 1) A constant debate between money and freedom has been going on for a long time. What is your view on the same, discuss. (Chap 2 – BIRDIE, WILL YOU PET?)
- 2) There is a marked difference between the sincere appreciation of a faithful friend and the artificial flattery of a foe. Discuss from your own personal experiences. (CHAP 10- FRIENDS AND FLATTERERS)
- 3) The poet mentions a number of things he dreams. How do you think this dream can be achieved in today's world? (Chap 5-I DREAM A WORLD )

### SHORT ANSWER TYPE QUESTIONS

- 1) Describe Swami's feelings in the office room at night. (Ch 3- A HERO)

2) The people in the bazaar were chasing Tutu? Think of the prime reasons behind the same. (Ch 1- MONKEY TROUBLE)

3) Manjula needed extra money. Why? (Ch 4-FIGHT, MANJU, FIGHT!)

4) What according to the soldier was the specialty of the stones? (Ch 6-Stone Soup In Bohemia)

5) How was Trishna saved? (Ch 7-A STORMY ADVENTURE)

6) How does Shakespeare's idea of friendship look like? (Ch 10-FRIENDS AND FLATTERERS)

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Question Bank(Writing/Worksheet-2) CLASS VI-VII Session 2018-2019

### **NOTICE WRITING-**

Q1. An NGO by the name SEWA plans to hold classes for children living in hutments outside the city. They need student volunteers for this project. Your Principal has asked you to put up a notice inviting students to join the initiative. Write the notice in not more than 50 words.

Q2. . Your school is organizing a trek to the famous Valley of Flowers in the Himalayas. As the Secretary of the Outstation trip committee you have been asked to put up a notice informing students of classes 7-9 about the trek details in not more than 50 words.

Q3. As head of the Literary Club of your school, you have organized an inter school debate competition on the occasion of the golden Jubilee celebration of your school. Draft a notice about 50 words informing the students about the competition . you are Abhishek Dogra of Dayanand Public school.

Q4. Imagine yourself as the President of Academic Society of your school.Draft a notice in about 50 words informing students about the tutorials to be held in the summer vacations.Invent the necessary details like date, time etc.

Q5. You lost your pencil box yesterday . As Swaroop Dixit, draft a notice to be put on the notice board giving all the necessary details in 50 words.

### **INFORMAL LETTER WRITING-**

Q1. You are Harshit Gupta of 86,vijay Nagar ,Delhi. Write a letter to your friend congratulating him on his winning a scholarship. ( word limit-120 words)

Q2. Write a letter to your best friend who is in the hospital cheering and encouraging him/her.

Q3. You are Nidhi of 34,sarita vihar, Delhi. Your cousin failed in her/his exam write a letter to him/her encouraging him/her in about 120 words.

### **FORMAL LETTER WRITING-**

Q1. Write a letter to the Editor of The Hindustan Times complaining about how loud speakers in your locality have become a nuisance. (word limit- 120-150)

Q2. Write a letter to the Editor of a leading daily requesting him/her to help the people who live in dilapidated huts, dirty slums and homeless people on streets by drawing attention of concerned authorities towards the matter.

Q3.Apart from working in hazardous jobs, many girls are employed as domestic labour. Little attention is paid to the physical, social and mental burdens they carry. Write a letter to the Editor of a newspaper highlighting the problem and urging the government to make and implement policies to effectively protect the girl child's rights.



**SPEECH-**

Q1. You read the quote. It inspired you a lot and during your class assembly you decided to deliver a speech on the same. Prepare a speech to be delivered in your class assembly on the ‘‘Success comes to those who wish and dare.’’

Q2. Write a speech on the value of education.

**NEWSPAPER ARTICLE-**

Q1. Recently you had gone to watch a cricket match when a fight broke between the supporters of the two rival teams.this resulted in 2 people getting injured. You are moved with the incident and you have decided to write an article on ‘‘SPORTSMANSHIP’’for a national daily . Write the article in about 150 words

Q2. You saw this picture depicting the horror of wars. You were so moved by the clip that you decided to write an article for The Times Of India on ‘‘Horrors Of Wars’’ and how can we make this world a more peaceful place.

**Question Bank(Grammar Worksheet-1) for Classes VI-VII Session:2018-2019**

**I. Edit the passage underlining the mistake present in each line & by writing the correct word in the blank space.**

My day begins on five O'clock in the morning  
It has been so since the last forty years  
except for the two years of which I was  
very ill. I wake up at the sound of an  
alarm clock bought at 1952.  
From then until today, it has never  
let me down. My routine, however turns topsy-turvy in holidays.

a) \_\_\_\_\_  
b) \_\_\_\_\_  
c) \_\_\_\_\_  
d) \_\_\_\_\_  
e) \_\_\_\_\_  
f) \_\_\_\_\_

**II. Underline each error and write the correction in the space provided.**

Couples who marries to settle  
down is likely to be headed  
for difficulties, said Dr. Paul,  
Director of the Institute of Family relations,Los Angeles  
Most marriage difficulty are caused  
by improper balance in normal human needs.  
These are the needs of social acceptance,  
a full emotion life, and  
some outlet for individual creative impulses.

a) \_\_\_\_\_  
b) \_\_\_\_\_  
c) \_\_\_\_\_  
d) \_\_\_\_\_  
e) \_\_\_\_\_  
f) \_\_\_\_\_

**III. Mark the places where a word has been omitted with a '/' and indicate the omitted word in the space provided:**

After the holy man had spoken Rama,  
he told Rama's mother that should  
be sent to pray the Kali Temple at the  
village. He promised good lady that if  
this was done, Kali, the goddess appear,  
take pity on him and bless. Then, all her  
worries would be over.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**IV. Rearrange the words and phrases to make meaningful sentences.**

- 1) Who/ America/a/my/lived/send/uncle/in/me/watch.
- 2) Bangalore/in/will/is/in/who/summer/come/friend/vacation/my.
- 3) Teacher/lady/in/a/the/was/exam/there/room.

**V. Rearrange the words and phrases to make meaningful sentences.**

- 1) any /salted/ have/ you/ do/ peanuts?
- 2) You/believe/hear/should/what/never/you.
- 3) This/so/I/satisfy/amount/little/can/anyone/is/that/not.

**VI. Rearrange the words and phrases to make meaningful sentences.**

- 1) Always/his/I/honesty/shall/remember.
- 2) That/life/animal/plant/everyone/has/whether/or/breathes.
- 3) Buddha/his/child/kingdom/led/life/a/left/wife/and/the/and/of/beggar.

**VII. Complete the following sentences using appropriate modal auxiliary verbs. Each question is followed by three suggested answers. Choose the most appropriate one.**

1. I ..... be happy to meet Robinson.  
a) will                      b) shall                      c) Either could be used here
2. .... he play for our team?  
a) Will                      b) Shall                      c) Either could be used here
3. .... I get a prize if I stand first in the examination?  
a) Will                      b) Would                      c) Should
4. I ..... be able to beat him. (Express possibility)  
a) would                      b) should                      c) could
5. Watch and pray lest you ..... fall into temptation.  
a) should                      b) would                      c) could
6. The old man ..... recline in a corner and sleep most of the time. (Express a habitual action in the past)  
a) should                      b) would                      c) could

**VIII. Fill in the blanks with a suitable modal verb.**

1. You \_\_\_\_\_ brush your teeth after every meal.
2. The boys \_\_\_\_\_ train hard if they want to win the competition.
3. If it does not rain tomorrow, we \_\_\_\_\_ go for a picnic.

**IX. Put in 'can', 'could', 'was/were able to' or their negative forms.**

1. Nothing \_\_\_\_\_ stop him now that he has made up his mind.
2. The students \_\_\_\_\_ finish the test on time despite the short time they were given.
3. " \_\_\_\_\_ I take part in the competition ?" " I don't think you \_\_\_\_\_ as you are under-aged."

4. I am sorry I \_\_\_\_\_ help you as I myself \_\_\_\_\_ neither speak nor understand a word of French.  
 5. That child prodigy \_\_\_\_\_ solve difficult mathematical problems when he was but a few years old.  
 6. She was very weak and \_\_\_\_\_ hardly lift her head.

**X. Fill in the blanks with some, any, someone, anyone, something, anything etc.**

1. I saw \_\_\_\_\_ moving among the bushes. It wasn't \_\_\_\_\_ that I could recognize.  
 2. I can't see \_\_\_\_\_ out there. There must be \_\_\_\_\_ wrong with your eyes !  
 3. There is \_\_\_\_\_ walking towards the house. Does \_\_\_\_\_ know who it is ?  
 4. Isn't there \_\_\_\_\_ knocking at the door ? I was sure I heard \_\_\_\_\_ out there.  
 5. There isn't \_\_\_\_\_ milk in the refrigerator. You had better ask \_\_\_\_\_ to get us \_\_\_\_\_.  
 6. I can't carry \_\_\_\_\_ more since both my hands are full. Can't you ask \_\_\_\_\_ else to help you ?

**XI. Change the voice:**

1. Who did the job ?                      2. Can you break the door ?                      3. She will sing a song.

**XII. Fill in the blanks with the appropriate form of the verb.**

1. The policeman \_\_\_\_\_ the thief red-handed.  
 a) Catch    b) Caught    c) Is caught                      d) Catching
2. Students at a number of schools \_\_\_\_\_ from their classes in protest against the high-handedness of the administrative staff.  
 a) Stay away                      b) Stayed away                      c) Has stay away                      d) Had stay away
3. The whole day yesterday the boys \_\_\_\_\_ to the cricket commentary.  
 a) Listen    b) Will listen                      c) Has listened                      d) Listened
4. A bomb scare \_\_\_\_\_ a delay of the flight.  
 a) Caused    b) Cause    c) Was caused                      d) Had caused
5. The stadium \_\_\_\_\_ with dance, music and song as troupes from across the country presented a panorama of colors and costumes.  
 a) Had reverberated                      b) Would reverberate                      c) Reverberate                      d) Reverberated
6. Jim Corbett \_\_\_\_\_ animals, but he \_\_\_\_\_ several man-eaters.  
 a) Loved, would kill                      b) Loved, killed                      c) Loved, had killed                      d) Love, kill

**XIII. Complete the following sentences using an appropriate verb form.**

1. I ..... (wake) up several times in the night.  
 2. My mother ..... (cook) delicious meals.  
 3. She ..... (not know) the answer.  
 4. The boys ..... (play) in the garden when it started raining.  
 5. I ..... (wait) for him.  
 6. I ..... (receive) the parcel yesterday.

**XIV. Finish the sentences with a clause in the correct conditional:**

1. If I had listened to my mother \_\_\_\_\_  
 2. If you sit in the sun too long \_\_\_\_\_  
 3. If it is sunny tomorrow \_\_\_\_\_

**XV. Circle the correct verb in each of the sentences below.**

1. Your friend (talk-talks) too much.  
 2. The man with the roses (look-looks) like your brother.  
 3. The women in the pool (swim-swims) well.  
 4. Bill (drive-drives) a cab.  
 5. The football players (run-runs) five miles every day.  
 6. That red-haired lady in the fur hat (live-lives) across the street.

## अभ्यास - पत्र

### कक्षा - सातवा

प्र.2 कोष्ठकों में दिए गए शब्दों को भाववाचक संज्ञाओं में बदलकर खाली स्थानों में भरिये

क) हिमालय की ..... बहुत अधिक है। (ऊँचा)

ख) ..... के कारण उसे जल्दी नींद आ गई। (थकना)

ग) हमें ..... से रहना चाहिए। (एक)

घ) ताजमहल की ..... को देखकर आश्चर्य होता है। (सुंदर)

प्र.3 जो शब्द अपने वर्ग से भिन्न हैं उसके आगे (x) का चिह्न लगाइए।

1) लोभ ( ) 2) बुराई ( ) 3) मिठाई ( )

4) पढ़ाई ( ) 5) लिखाई ( ) 6) भाई ( )

7) विद्यालय ( ) 8) लड़का ( ) 9) गणेश ( )

10) गुरु जी ( ) 11) चीन ( ) 12) दिल्ली ( )

13) जापान ( ) 14) बंगाल ( ) 15) देश ( )

प्र.4 नीचे दिए गए वाक्यों में संवा भरिये -

क) ..... के सैनिक ..... और ..... के साथ लड़े।

ख) इस ..... की ..... क्या होगी ?

ग) इस ..... में चारों तरफ ..... है।

घ) ..... पर ..... बिछा दो।

प्र.5 निम्नलिखित शब्दों को भाववाचक संज्ञान में बदलिए।

1 मानव ..... 2 चुनना .....

3 बच्चा ..... 4 अपना .....



5 सुंदर ..... 6 मधुर .....

7 सफल ..... 8 मनुष्य .....

प्र.6 जो ठीक है उसके सामने कोष्ठक में (✓) और जो गलत है उसके सामने कोष्ठक में (x) का चिह्न लगाइए।

- 1 घोड़ा व्यक्तिवाचक संज्ञा है। ( )
- 2 कुंज समूहवाचक संज्ञा है। ( )
- 3 उड़ान भाववाचक संज्ञा है। ( )
- 4 चाँदी द्रव्यवाचक संज्ञा है। ( )
- 5 जानवर व्यक्तिवाचक संज्ञा हैं। ( )
- 6 जवाहरलाल नेहरू व्यक्तिवाचक संज्ञा है। ( )

