

**Kendriya Vidyalaya No-2 AFS HINDAN GZB.**  
**SUMMER VACATION HOLIDAY HOMEWORK**

**MATHEMATICS**

**CLASS 8**

**SESSION (2022-24)**

General Instructions:

1. Do Holiday HW in Classwork copy (give heading SUMMER VACATION HW), no need to make separate copy.
2. Complete C.W.

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**Holiday Homework is an attempt to enhance children's imagination. Doing it in the right-spirit with enthusiasm will make it a great learning experience .**

**Q.1)** Addition and subtraction of Rational number:

**Description :** write fractions in mixed form and find out the hidden word.

1]  $\frac{5}{6} + \frac{8}{6}$

2]  $\frac{3}{4} - \frac{9}{4}$

3]  $\frac{-5}{8} - \frac{2}{7}$

4]  $\frac{2}{5} \times \frac{-3}{7}$

5]  $\frac{3}{7} + \left(\frac{-6}{11}\right) + \left(\frac{-8}{21}\right) + \frac{5}{22}$

6]  $-3 - \frac{7}{2}$

7]  $\frac{-9}{2} + \frac{5}{12}$

8]  $\frac{-1}{12} - \left(\frac{-4}{9}\right)$

1	2	3	4	5	6	7	8
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**Answers : -**

A =  $1\frac{1}{2}$

I =  $\frac{-6}{35}$

N =  $6\frac{1}{2}$

L =  $\frac{13}{36}$

R =  $2\frac{1}{6}$

A =  $1\frac{1}{12}$

O =  $\frac{-125}{462}$

T =  $\frac{-51}{56}$

**—Q.2)** Find which of following is rational number:

1/5,

11/15,

0/11,

3/0,

0,

Activity 3

PLAY WITH BALLS :-

DESCRIPTION: -

Students are supposed to take two different coloured sketch pens , same number of identical balls are to be drawn for one integer as indicated. Perform activity according to given example ( we know –ve symbol means opposite / change of colour)

Example : Let

O : - Green for positive integer

O : - Red for –ve integer

1)  $2 \times 3$  ( 2 times 3 )



Show the following in the form of picture of balls

A]  $-3 \times 4$

B]  $2 \times -4$

C]  $-3 \times -4$

D]  $4 \times 5$

Q.4) Learn and write table from 2 to 25.

Q.5) Learn and write square of numbers from 2 to 25.

Ex.  $2 \times 2 = 4$

Q.6) Learn and write cube of numbers from 2 to 15.

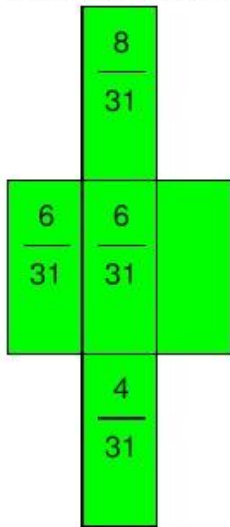
Ex.  $2 \times 2 \times 2 = 8$

Q.7) Revise chapters = Rational numbers and Linear equation in one variable.

Q.8) Solve following Worksheets given below.

WORKSHEET- 1 (RATIONAL NUMBERS)

- (1) If the sum of both the horizontal and the vertical rows is same, find the missing rational number.



- (2) Find the difference between the greatest and the least numbers of  $\frac{-7}{5}$ ,  $\frac{3}{16}$ ,  $\frac{2}{7}$ ,  $\frac{3}{24}$ .

- (3) Solve the following and simplify to lowest term:

A)  $\frac{-3}{2} + \frac{6}{5} + \frac{5}{5} + \frac{-5}{3} + \frac{-4}{4}$

B)  $\frac{1}{3} + \frac{2}{4} + \frac{-2}{5} + \frac{-1}{2} + \frac{6}{6}$

- (4) Is  $\frac{6}{11}$  the multiplicative inverse of  $-1\frac{5}{6}$ ? Why or why not?

- (5) What is the multiplicative inverse of  $\frac{6}{16}$ ?

- (6) Reduce the rational number  $\frac{18}{15}$  to the lowest form.

- (7) Name the property that is reflected in the following expression:

A)  $\frac{5}{-11} \times \frac{-11}{5} = 1$

B)  $\frac{1}{24} \times \frac{24}{1} = 1$

(8) Find the following and simplify it to lowest term:

A)  $\frac{5}{5} \times \frac{-2}{5} \times \frac{-3}{5}$

B)  $\frac{1}{3} \times \frac{-4}{4} \times \frac{-4}{4}$

(9) Write the rational number that are equal to their reciprocals.

**Choose correct answer(s) from the given choices**

(10) Which of the following statements is false?

- a. Every rational number is a fraction
- b. Any number, when divided by 10 is a rational number
- c. Every fraction is a rational number
- d. Every negative number is a rational number

(11) Which of the statements given below is false?

- a. There is no fraction that cannot be represented as a rational number.
- b. All the negative numbers can be represented as rational numbers.
- c. A decimal number cannot be a rational number
- d. There is no integer that cannot be represented as a rational number.

(12) Which of the following statements is true for a rational number  $\frac{a}{b}$ .

- a. The denominator  $b$  cannot be 0
- b. The numerator  $a$  can be a decimal number
- c. The denominator  $b$  cannot be 1
- d. The numerator  $a$  cannot be 1

(13)  $\frac{-4}{0}$  is \_\_\_\_\_.

- a. not a rational number
- b. a positive rational number
- c. a negative rational number
- d. either positive or negative rational number

(14) Which of the following is a rational number(s) ?

- a.  $\frac{-7}{15}$
- b.  $\frac{-5}{-13}$
- c.  $\frac{6}{-13}$
- d. All of these

## Fill in the blanks

(15) Add the following rational numbers.

A)  $\frac{5}{25} + \frac{12}{25} = \frac{\underline{\quad}}{\underline{\quad}}$

B)  $\frac{12}{25} + \frac{4}{25} = \frac{\underline{\quad}}{\underline{\quad}}$

C)  $\frac{3}{23} + \frac{9}{23} = \frac{\underline{\quad}}{\underline{\quad}}$

D)  $\frac{17}{34} + \frac{12}{34} = \frac{\underline{\quad}}{\underline{\quad}}$

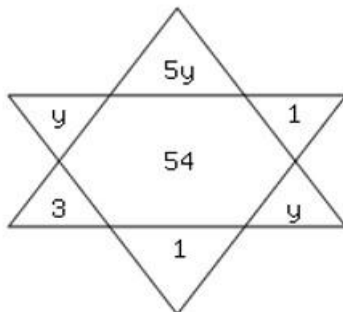
E)  $\frac{4}{19} + \frac{14}{19} = \frac{\underline{\quad}}{\underline{\quad}}$

F)  $\frac{15}{47} + \frac{20}{47} = \frac{\underline{\quad}}{\underline{\quad}}$

WORKSHEET- 2 (LINEAR EQUATION IN ONE VARIABLE)

Choose correct answer(s) from the given choices

- (1) If  $a + b = 5$ ,  
 $b + c = 12$ , and  
 $c + a = 11$ ,  
then what is the value of  $a + b + c$ ?
- a. 9  
b. 14  
c. 15  
d. 12
- (2) The father's age is 4 times his daughter's age. After 18 years, the age of the father will be 2 times his daughter's age. The present ages of the daughter and the father are, respectively.
- a. 7 years and 28 years  
b. 9 years and 36 years  
c. 11 years and 44 years  
d. 8 years and 32 years
- (3) Divya has two planks of wood. One of them is 23 m less than 4 times the length of the other one. The two planks put together are 27 metres long. What is the length (in metres) of the longer plank?
- a. 14  
b. 16  
c. 17  
d. 20
- (4) If the number in the center is the sum of all other numbers, find the value of  $y$ .  
(Clarification: In the figure, the terms containing  $y$  are products of  $y$  with single digit numbers.)



- a. 9  
b. 7  
c. 5  
d. 6

## Fill in the blanks

(5)  $\frac{8}{7}$  of a number when multiplied by  $\frac{7}{48}$  of the same number make 216. The number is         .

(6) Solve the equations to find value of variable.

A)  $\frac{4y+5}{-3} - \frac{-5y+1}{3} = \frac{2y-6}{3}$

**y =**         

B)  $\frac{4b-2}{-2} + \frac{5b-3}{5} = \frac{5b-49}{-10}$

**b =**         

(7) For any four numbers p, q, r and s, the mathematical representation

$$\begin{vmatrix} p & q \\ r & s \end{vmatrix} \text{ means } p \times s - q \times r.$$

If  $\begin{vmatrix} 3x & 4x \\ 3 & 2 \end{vmatrix} = -30,$

the value of  $x =$          .

## Answer the questions

(8) Two angles in a triangle are in the ratio 2:3. If the sum of these angles is equal to the third angle, then what is the value of third angle?

(9) Solve the equation to find value of y.

$$-2y + \frac{1}{2} = \frac{0.2}{2}$$

(10) If  $f(x) = 2x - 5$  and  $f(p) = 3$ , find the value of p.

( ग्रीष्मकालीन अवकाश गृह कार्य अपनी उत्तर पुस्तिका में ही करना है।)

- 1- सुलेख लिखिए।( कम से कम 1 पेज का-कुल-15)
2. “आपकी कोई यात्रा” इस विषय पर 25 वाक्य लिखिए।
3. लाख की चूड़ियां पाठ में आए संज्ञा सर्वनाम तथा विशेषण शब्दों को ढूंढ कर लिखिए।

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4. संज्ञा, सर्वनाम, क्रिया और विशेषण के सभी भेदों के पांच पांच उदाहरण लिखिए।
5. प्रतिदिन 10 शब्द का श्रुतलेख अपने अभिभावक से लेकर लिखिए और उनका दो बार लिखकर अभ्यास कीजिए ।
6. पढ़ाए गए पाठों के प्रश्न उत्तर याद करो।
7. भारत की खोज को सस्वर (तेज आवाज में) अपने अभिभावक के समक्ष बैठ कर पढ़िए । तथा प्रत्येक पाठ से प्रश्न बनाकर उसके उत्तर भी ढूंढिए और अपनी अभ्यास पुस्तिका में नोट कीजिए ।
8. प्रतिदिन कोई पांच हिंदी के शब्द खोज कर उनका अर्थ याद कीजिए तथा उनका वाक्य प्रयोग अर्थ सहित कॉपी में लिखिए ।
9. अपने भाई की शादी में आमंत्रित करने हेतु अपने मामा को निमंत्रण पत्र दीजिए।
- 10- “ हमारे पसंदीदा महापुरुष (कोई एक स्वतंत्रता सेनानी) “ शीर्षक पर 200 शब्दों में एक अनुच्छेद लिखिए।
- 11- “ भारत एक सोने की चिड़िया” शीर्षक पर 200 शब्दों में एक अनुच्छेद लिखिए ।

## Set\_2

- 1- प्रतिदिन एक सुलेख लिखिए।( कम से कम 1 पेज का-कुल-30)
2. हमारी यात्रा (कहीं भी जहां आप गए हो) इस विषय पर 15 वाक्य लिखिए।
3. लाख की चूड़ियां पाठ का सारांश लिखिए।
4. संज्ञा सर्वनाम और विशेषण के सभी भेदों के पांच पांच उदाहरण लिखिए।
5. प्रतिदिन 10 शब्द का श्रुतलेख अपने अभिभावक से लेकर लिखिए और उनका दो बार लिखकर अभ्यास कीजिए ।
6. पढ़ाए गए पाठों के प्रश्न उत्तर याद करो।
7. भारत की खोज किताब में से प्रतिदिन 5 पेज सस्वर (तेज आवाज में) अपने अभिभावक के समक्ष बैठ कर पढ़िए ।
8. प्रतिदिन कोई पांच हिंदी के शब्द खोज कर उनका अर्थ याद कीजिए तथा उनका वाक्य प्रयोग अर्थ सहित कॉपी में लिखिए ।
9. एक से पचास तक गिनती हिंदी में शब्दों में लिखिए
10. हिंदी में सभी महीनों के नाम लिखिए तथा उनके सामने अंग्रेजी में उनका नाम लिखिए।
- 11- “ मेरा ग्रीष्मकालीन अवकाश” शीर्षक पर 200 शब्दों में एक अनुच्छेद लिखिए।
- 12- मेरा विद्यालय शीर्षक पर 200 शब्दों में एक अनुच्छेद लिखिए।
- 13- बुखार होने पर छुट्टी के लिए प्रार्थना पत्र लिखिए।



14- किन्हीं 5 कहानियों को पढ़कर उनका सारांश लिखिए ।

## Social science

### Class-VIII

#### Level-1

1. Why were surveys important under colonial administration?

2. Give an account of the battle of Plassey.

3. Who introduced the policy of "paramountcy"? What did it mean?

4. What is meant by the concept of separation of power, explain it.

5. What does the preamble to the constitution contain?

6. Draw a diagram of soil.

7. Prepare 20-20 MCQ from:

- Lesson-1 Resources
- Lesson-2 The Indian Constitution
- Lesson-3 From Trade to territory..

8. MAP WORK:

- On the Political map of India locate state and U.T.s with capital
- On the Outline map of India show expansion of British Territorial power in India. [History Chapter-2]

9. Observe the pictures given in history textbook given in Chapter-2. figs- 4 and 10 and write the answers to the question:

❖ FIG-04:

- Identify the person in the picture.
- When was he appointed the governor of Bengal?
- Which battle did he fight in 1757 and against whom?

❖ FIG-10:

- What is it?
- Where is it kept?
- When did the British take it away?

10. MDP Project file.

11. Art Integrated Project which was discussed in the class.

#### LEVEL-02

1. Why did the British preserve official documents?

2 Explain the Fundamental Rights.

3. Classification of Resource.

4. Draw a flowchart to show how Resources are classified.

5. Why does a democratic country need a constitution?

6. Prepare 10-10 MCQs from each chapter:

- Geography: Chapter-01
- Civics: Chapter-01
- History: Chapter-02

7. MAP WORK:

- On the political map of India locate states and U.Ts with capital.

8. Learn all the 4 chapter (Done in class for P.T-01 and Class test)

9. MDP project file.

10. Make art integrated project which was discussed in class.

### Level-03

1. Essay on Dr. Bhimrao Ambedkar and also paste the picture.

2. Geography Chapter-01 key words:

- Utility
- Patent
- Resource

Write their meaning with definition.

3. Write 5-5 examples of man-made and natural resources.

4. MDP project file

5. Art Integrated project which was discussed in the class

6. Map Work:

- On the political map of India locate states and U.T.s with capital.

7. Learn all 4 chapter's exercise for class test and P.T-01 and read the chapter- Trade to Territory.

## **English**

**1. Prepare a comic on “How the Camel Got his Hump”.**

**2. Write a paragraph on the topic “Peace and War” with the reference of the chapter ‘The Best Christmas Present in the World’.**

- 3. Write a paragraph on ‘Natural Disaster’ with the reference of “The Tsunami”.**
- 4. Write 10 sentences of simple present and 10 sentences of simple past.**
- 5. Read English newspaper/English comic/English stories DAILY.**
  - Paste Newspaper strips of 10 positive news and rewrite them**

#### **6. Prepare for PT1 Exam**

**Note: You have to do your holidays homework in the same English notebook.**

### **Summer Vacation Holiday Homework.**

**•Subject- (English)**

**•Class 8<sup>th</sup>.**

- 1. Write a paragraph on Conflicts Between the nation can be Solved through negotiation,Not By war .**
  - 2. Write 20 Idioms And 20 Phrases With Meaning And use in Sentences**
  - 3. Read newspaper daily and Cut & Paste 10 Positive News Strips In Copy And Rewrite The Same News .**
- Note-Holiday Homework Should Be done In English Copy.**

## **Class 8 Science Holliday homework**

- 1) Learn the question answer of three chapters (i)Crop production and management  
(ii)Microorganism :friend and foe  
(iii)Coal and petroleum**
- 2) complete your science home work note book upto above three chapters**
- 3) make a one science project(data collection and research type ) for NCSC as discussed in your class**
- 4) preparation short and MCQ question for your PT 1 exam (from three chapters)**