

KENDRIYA VIDYALAYA SANGATHAN, CHENNAI REGION

2018-19 SUMMER VACATION HOME WORK

CLASS: VI

SUB: ENGLISH

S.NO	TOPIC	LEARNING OBJECTIVES	EVALUATION CRITERIA	DURATION
1.	Newspaper / Magazine Reading a) Identify 3 new words with the help of dictionary and write the meanings	Practice for Section – A To improve the word attack skills	a. Selection of article b. Dictionary reference	Once in a week
2	Listen to English news and write at least two headlines	To develop Listening and Writing skills	1.Catchy Headline 2.Key Words used	Every day
3	My Three favourite Proverbs/Maxims as pictorial representations	Values imbibed through the presentation	a) Creativity/ Imagination b) Aptness of images/drawings c) Presentation	Once in a week

केंद्रीय विद्यालय आई.आई.टी-चेन्नई-36

ग्रीष्मावकाश गृह-कार्य

विषय-हिन्दी

कक्षा-6

क्र.सं.	गृह कार्य	उद्देश्य
1.	विलोम-शब्द दैनिक जीवन में कम आने वाले शब्दों का लेखन आवश्यक चित्र भी लगाये कोई 20	दैनिक जीवन में काम आने वाले शब्दों की भिन्नता का ज्ञान
2.	पर्यायवाची शब्द-20 दैनिक जीवन के आवश्यक शब्दों का ज्ञान	शब्द भंडार में वृद्धि
3.	वचन बदलो कोई 20	हिंदी में संख्यात्मक शब्दों का ज्ञान
4.	दैनिक जीवन में आये शब्दों में कोई 20 शब्दों के लिंग बदलो	सजीव और निर्जीव दोनों के लिंग का ज्ञान
5.	अपने दोस्तों के नाम लिखो तथा अपने प्रिय मित्र की फोटो चिपकाकर एक अनुच्छेद लिखिए।	मनोरंजनात्मक दृष्टीकोण उत्पन्न करना
6.	अपने जन्मदिन पर आमंत्रित करते हुए अपने मित्र को पत्र लिखिए	लेखन कला का विकास

KENDRIYA VIDYALAYA IIT CHENNAI-36

SUMMER HOLIDAY HOME WORK-2018-19

CLASS: VI

SUBJECT: MATHS

1. Arrange the following numbers in ascending order:
 - a. 847, 9754, 8320, 571
 - b. 9801, 25751, 36501, 38802
2. Arrange the following numbers in descending order:
 - a. 5000, 7500, 85400, 7861
 - b. 1971, 45321, 88715, 92547
3. Write the place values and its expanded form of the following numbers.
 - a. 475320
 - b. 9847215
 - c. 97645310
 - d. 30458094
4. Take the digits 4,5,6,7,8 and 9. Make any three numbers each with 8 digits. Put commas for easy to reading.
5. Insert commas suitably and write the names according to Indian system of numeration.
 - a. 8546283
 - b. 99900046
 - c. 98432701
 - d. 87595762
6. Insert commas suitably and write the names according to Indian system of numeration.
 - a. 78921092
 - b. 7452283
 - c. 99985102
 - d. 48049831
7. A building corporation built 8535876 flats in 2004 and 28546321 flats in 2005. How many flats were built in these two years?
8. A factory produces 2983257 tubes of one kind, 3257825 tubes of second kind and 865359 tubes of third kind. How many tubes did it produce altogether?
9. The sum of two numbers is 52432192. If one number is 2836542, find the other number.
10. The population of a town is 86542892, if the number of female members is 24596825, find the number of male members.
11. There are 376 bags of rice in a godown. If each bag weight 98kg 725 g, find the total weight of these bags

12. The cost of a chair Rs.98050. find the cost if such 2035 chairs
13. What least number should be subtracted from 86295031 so that the remainder is exactly divisible by 582.
14. 826512 persons visited a park in 257 days. How many persons visited the park each day ?
15. Round of the given numbers to the nearest tens, hundreds and thousands
- 85764
 - 75487
16. Estimate the following products
- 87×313
 - 43×947
 - 82×222
17. Estimate :
- $830 + 988$
 - $12805 + 2888$
 - $75430 + 42450$
18. Write the expanded form?
- 74836
 - 574021
 - 8907010
19. How many grams should be added to 2 kg 200 g to make it 5 kg 68 g?
20. Radius of the earth is 6400 km and that of Mars is 4300000 m. whose radius is bigger and by how much?
21. A garment factory produced 216315 shirts, 182736 trousers and 58704 jackets in a year. What is the total production of all the three items in that year?
22. Compare the numbers 9524420 and 9528420
23. Find the difference between the greatest and the smallest numbers formed by using all the digits 8, 0, 9,2,7,1 only one each time.
24. CXXXI is written in Hindu – Arabic numeral as _____
25. Round off to nearest 100, 1000, 10000 each of the following numbers
- 54655
 - 5816897
 - 94258
 - 49135
26. Read and write tables 6 to 16 two times in A4 sheet

कक्षा - प्रथम

प्र. 1 अकारान्त पुल्लिङ्ग शब्द (10) लिखिए ।
प्र. 2 राम और तामक शब्द के शब्द रूप लिखिए ।

प्र. 3 रूप लिखिए -

धावति _____

पठति _____

चलति _____

वदति _____

खेलति _____

प्र. 4 वाक्य रचना कीजिए -

i सः _____

ii _____ पठतः

iii) ते _____

iv) _____ धावति

v) ते _____

vi) _____ खेलन्ति

प्र. 5 धातुरूप लिखिए -

पठ, लिख्, चल (लट् लकार)

प्र. 6 आकारान्त स्त्रीलिङ्ग (10) शब्द लिखिए ।

- प्र. 1 अकारान्त पुल्लिङ्ग राम, बालक शब्दरूप लिखिए
- प्र. 2 पठ धातु (लट्, लङ्, लृट्) रूप लिखिए
- प्र. 3 (5) श्लोक को सुन्दर लिखते हुए एक चार्ट बनाइए ।
- प्र. 4 किम् शब्द के रूप (पुल्लिङ्ग, स्त्रीलिङ्ग, नपुसंकलिङ्ग) में लिखिए
- प्र. 5 आकारान्त स्त्रीलिङ्ग मता, रमा शब्द का चार्ट तैयार कीजिए ।
- प्र. 6 'दुर्बुद्धिः विनश्यति' पाठ को चित्र के द्वारा बनाइए ।
- प्र. 7 निम्नलिखित शब्दों का संस्कृत में अनुवाद कीजिए चित्र भी बनाइए ।
- | | | | |
|---------|------------|--------------|------------|
| i) पेन | ii) ताला | iii) पेन्सिल | iv) घड़ी |
| v) बकसा | vi) अलमारी | vii) पुस्तक | viii) पंखा |


- प्र०1 पठ् और खाद् धातु के रूप चार्ट के माध्यम से लिखिए
- प्र०2 (5) श्लोक को सुन्दर लिखते हुए चार्ट तैयार कीजिए ।
- प्र०3 अकारान्त राम, बालक शब्द के रूप लिखिए ।
- प्र०4 आकारान्त शब्दों का एक A4 पेज में चार्ट बनाइए ।
- प्र०5 निम्नलिखित शब्दों को संस्कृत में लिखिए व चित्र बनाइए ।
- | | | | |
|---------|-----------|----------|--------------|
| i) गाय | ii) बक्सा | iii) पेन | iv) पेन्सिल |
| v) तासा | vi) घड़ी | vii) | viii) पुस्तक |

KENDRIYA VIDYALAYA SANGATHAN, CHENNAI REGION

SUMMER HOLIDAY HOME WORK 2018-19

CLASS: VI

SUB: SCIENCE

S.NO	CLASS	ACTIVITIES	LEARNING OUTCOME & DURATION
1	VI	<ol style="list-style-type: none">1. Visit a nearby handloom or power loom unit and observe the weaving or knitting of fabric. Write your experiences (if possible with photos) in A4 sheet and submit to your science teacher.2. Weaving with colour paper strips (refer page no. 22 in VI – SCIENCE NCERT BOOK (OR) https://www.youtube.com/watch?v=F_00076jE5w3. Making useful items from only waste materials (decorative pieces/ scientific models) https://www.youtube.com/watch?v=1fDyTMeat0k4. Finding the quality of air (highly polluted) room of your house. Take 3 or 4 sheet of white paper. Apply oil or grease or petroleum gel. Hang this paper each in dining hall, kitchen, bedroom etc. The dust in the air will stick to the grease applied on the paper which can be seen as black in colour, which indicated the quality in the air. (Attach with photo proof). Observe for a week and write day wise report.	<ol style="list-style-type: none">1. Understanding the functioning of handloom.2. Identifying the types of fabric .  <p>TIME TAKEN: (3 HRS)</p>

KENDRIYA VIDYALAYA SANGATHAN, CHENNAI REGION

2018-19 SUMMER VACATION HOME WORK

CLASS: VII

SUB: ENGLISH

S. No	TOPIC	LEARNING OBJECTIVES	EVALUATION CRITERIA	DURATION
1.	MY MAGAZINE (BOOKLET) a. Story writing (Mystery / Science fiction) b. Poem c. Visit to a place with a photograph and a brief description(any place) d. Diary – entry (Celebration/Match witnessed)-any one e. A short article-My favourite Leader/sports person/food/game/film star(any one)	To develop Writing & Creative skills	a. Content b. Expression c. Creativity d. Presentation e. Layout f. Magazine Title	Summer Vacation= 50 days
2.	Newspaper / Magazine Reading a) Identify 5 new words with the help of a dictionary and write two synonyms and two antonyms of the same 5 new words	Practice for Section – A To enrich vocabulary	a. Selection of article b. Dictionary reference	Once in a week
3	Listen to English news and prepare two topics for JAM (Just a Minute)	To develop listening Writing & Speaking skills	JAM a) Title b) Content c) Accuracy	Every day

कक्षा-7

क्र.सं.	गृह-कार्य	उद्देश्य
1	अपनी दादी के बारे एक सचित्र अनुच्छेद लिखिए।	सामाजिक,आध्यात्मिक और नैतिक मूल्यों का विकास
2	महाभारत की वंशावली की तरह अपने परिवार की सचित्र वंशावली तैयार करे।	सोचने समझने की शक्ति का विकास
3	हिमालय से निकलने वाली नदियों के नाम लिखिए । साथ ही नदियों के लाभ को सचित्र लिखिए । नोट-चित्र के रूप में अखबार की कतरन का प्रयोग कर सकते हो ।	सामयिक मुद्दों के प्रति जागरूकता ।
4	गर्मी की छुट्टियों में पहाड़ी क्षेत्र में घूमने का आग्रह करते हुए पिताजी को पत्र लिखिए ।	लेखन कला का विकास ।

HOLIDAY HOMEWORK.

CLASS - VII - MATHEMATICS

CHAPTER - I - INTEGERS

1. Represent the following numbers as integers with appropriate signs.

 - (a) A deposit of rupees five hundred.
 - (b) Temperature of Srinagar is 10° below 0°C .
 - (c) An aeroplane is flying at a height 2000m above the ground.
2. By looking at the number line, answer the following questions:
Which integers lie between -9 and -3 ? Which is the largest integer and the smallest integer among them.
3. Use number line and add the following integers:

 - (a) $5 + (-10)$
 - (b) $(-3) + 8 + (-4)$
 - (c) $-5 + (+3)$
 - (d) $(-3) + (-5)$
 - (e) $+5 + (-3)$
 - (f) $+3 + (-3)$
4. Find:

 - (a) $(-8) - 9 - (-30)$
 - (b) $60 - (-40) - (-8)$
 - (c) $(-13) + 32 - 8 - 1$
 - (d) $37 + (-2) + (-65) + (-8)$
5. Find each of the following products:

 - (a) $5 \times (-1)$
 - (b) $(-42) \times (-80)$
 - (c) $(-216) \times (-1)$
 - (d) $12 \times 0 \times (-8)$
 - (e) $(-4) \times (-13) \times (-3) \times (-1)$
 - (f) $9 \times (100 - 2)$
 - (g) $(-16) \times (-64) + 88$
 - (h) $15 \times (-25) \times -4 \times (-100)$
 - (i) $(-1) \times (-2) \times (-3) \times 4$
 - (j) $19 \times [10 + 5]$
6. In a class test containing 20 questions, 5 marks are awarded for every correct answer and (-2) ^{marks} are awarded for every incorrect answer and 0 for questions not attempted.

(i) Shyam gets 8 correct and 12 incorrect answers. What is his score?

ii) Rahim get 10 correct answers and 10 incorrect answers, what is his score?

7. An elevator descends into a mine shaft at the rate of 8m/min. If the descent starts from 10m above the ground level, how long will it take to reach -390m.

8. Evaluate: (a) $(-400) \div 10$. (c) $[(-8)+5] \div [(-2)+1]$
(b) $[(-48) \div 12] \div 4$ (d) $0 \div (-10)$

9. Complete the following patterns with integers:

(i) -7, -3, 1, 5, —, —, —, —, —

(ii) -12, -10, -8, -6, —, —, —, —, —

(iii) -20, -15, -10, -5, —, —, —, —, —

10. Height of a place is 4000m above sea level. Another place B is 1800m below sea level. What is the difference between the levels of these 2 places?

11. A multistorey building has 25 floors above the ground level each of height 5m. It also has 3 floors in the basement each of height 5m. A lift in building moves at the rate of 1m/s. If a man starts from 50m above the ground, how long will it take him to reach the 2nd floor of basement?

12. Fill in the blanks: (d) $(-200) \div \text{---} = 1$.

(a) $350 \div \text{---} = 350$

(e) $(-16) \div [4 \div (-2)]$

(b) $\text{---} \div (-8) = -5$

(f) $[(-16) \div 4] \div (-2)$.

(c) $\text{---} \div 1 = -90$

13. Name the property under multiplication of integers

(a) $50 \times [100+2] = (50 \times 100) + 50 \times 2$

(b) $(-32) \times 1 = 1 \times (-32) = -32$

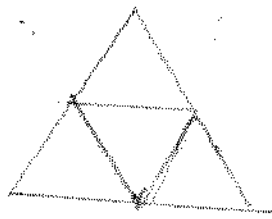
(c) $[(-2) \times (-5)] \times -8 = (-2) \times [(-5) \times (-8)]$

CHAPTER - 2 - FRACTIONS AND DECIMALS.

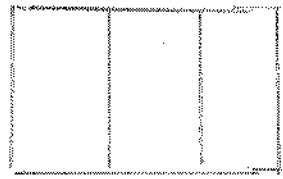
1. Colour the Part according to the given fraction.



(i) $\frac{1}{8}$



(ii) $\frac{1}{4}$



(iii) $\frac{1}{3}$



(iv) $\frac{3}{4}$

2. a. what fraction of a day is 6 hours?
 b. what fraction of an hour is 45 minutes?
 c. write the natural numbers from 2 to 12. what fraction of them are prime numbers?
3. Addition of fractions:
 Add the fractions to get sum $10\frac{1}{2}$ column wise, row wise or diagonal wise.

		3
	$3\frac{1}{2}$	
4		5

4. Add the decimal numbers to get sum 3.0 column wise row-wise or diagonal wise.

	1.4	
	1.0	
1.1		1.3

5. Fill in the missing fractions;

(a) $\frac{7}{10} - \square = \frac{3}{10}$ (b) $\square - \frac{2}{15} = \frac{1}{3}$ (c) $3 - \square = \frac{3}{5}$

6. Find: (a) $\frac{2}{3} + \frac{3}{4} + \frac{1}{2}$ (b) $4\frac{2}{3} + 3\frac{1}{4}$ (c) $\frac{4}{3} - \frac{1}{2}$ (d) $\frac{5}{9} + \frac{2}{3}$

7. Multiply and reduce to lowest form and convert into a mixed fraction.

(a) $15 \times \frac{3}{5}$ (b) $5 \times \frac{2}{9}$ (c) $5 \times 6\frac{3}{4}$ (d) $8\frac{1}{4} \times 6$ (e) $20 \times \frac{4}{5}$

8. Arrange the following in ascending order:

(i) $\frac{5}{6}, \frac{1}{2}, \frac{5}{8}$ (ii) $\frac{2}{5}, \frac{3}{10}, \frac{2}{6}$

9. Lilli has ₹ 1000. This is $\frac{3}{8}$ of the amount she earned. How much did she earn?

10. Family Photograph has length $24\frac{2}{5}$ cm and breadth $20\frac{2}{5}$ cm. It has border of uniform width $3\frac{3}{5}$ cm. Find the area of framed photograph.

11. Ravi travel 720 km on $\frac{3}{5}$ of his Petrol tank. How far would he travel at the same rate with a full tank of Petrol?

12. Find: a) $\frac{2}{5} \div \frac{1}{2}$ b) $2\frac{1}{3} \div \frac{3}{5}$ c) $3\frac{1}{2} \div \frac{8}{3}$ d) $2\frac{1}{5} \div 1\frac{1}{5}$

13. Find the reciprocal of each of the following. Classify the reciprocals as proper fractions, improper fractions and whole numbers.

(i) $\frac{2}{5}$ (ii) $\frac{11}{8}$ (iii) $\frac{6}{5}$ (iv) $\frac{1}{3}$ (v) $3\frac{1}{2}$ (vi) $2\frac{8}{5}$

DECIMALS:

14. a. Express 5 cm in metre and kilometre

b. Express 25 mm in cm, m and km

15. a. write each number in standard form:

a. $(3 \times 100) + (3 \times 10) + (7 \times 1) + (4 \times \frac{1}{10}) + (3 \times \frac{1}{100})$

b. $(8 \times 100) + (4 \times 10) + (1 \times \frac{1}{10}) + (7 \times \frac{1}{100})$

16. Evaluate: a) $0.03 + 8.02$ c) $7.36 - 7.28$

b) $0.88 + 4.55$ d) $5.08 - 3.5$

17. Find: a) 168.07×100 b) 0.5×0.05 c) 100.01×0.11

Numbers System:

a. write Tables from 2 to 16 - Two times

b. Find the factors for the following numbers

(i) 21 (ii) 18 (iii) 30 (iv) 36 (v) 42 (vi) 33 (vii) 45.

कक्षा - ११th

प्र० १ अकारान्त पुल्लिङ्ग शब्द (१०) लिखिए ।
प्र० २ राम और तामक शब्द के शब्द रूप लिखिए ।

प्र० ३ रूप लिखिए -

धावति _____

पठति _____

चलति _____

वदति _____

खेलति _____

प्र० ४ वाक्य रचना कीजिए -

i सः _____

ii _____ पठतः

iii) ते _____

iv) _____ धावति

v) तौ _____

vi) _____ खेलन्ति

प्र० ५ धातुरूप लिखिए -

पठ, लिख्, चल (लट् लकार)

प्र० ६ आकारान्त स्त्रीलिङ्ग (१०) शब्द लिखिए ।

- प्र. 1 अकारान्त पुल्लिङ्ग राम, बालक शब्दरूप लिखिए
- प्र. 2 पठ धातु (लट्, लङ्, लृट्) रूप लिखिए
- प्र. 3 (5) श्लोक को सुन्दर लिखते हुए एक चार्ट बनाइए ।
- प्र. 4 किम् शब्द के रूप (पुल्लिङ्ग, स्त्रीलिङ्ग, नपुसंकलिङ्ग) में लिखिए
- प्र. 5 आकारान्त स्त्रीलिङ्ग मता, रमा शब्द का चार्ट तैयार कीजिए ।
- प्र. 6 'दुर्बुद्धिः विनश्यति' पाठ को चित्र के द्वारा बनाइए ।
- प्र. 7 निम्नलिखित शब्दों का संस्कृत में अनुवाद कीजिए चित्र भी बनाइए ।
- | | | | |
|---------|------------|--------------|------------|
| i) पेन | ii) ताला | iii) पेन्सिल | iv) घड़ी |
| v) बकसा | vi) अलमारी | vii) पुस्तक | viii) पंखा |

- प्र०1 पठ् और खाद् धातु के रूप चार्ट के माध्यम से लिखिए
- प्र०2 (5) श्लोक को सुन्दर लिखते हुए चार्ट तैयार कीजिए ।
- प्र०3 अकारान्त राम, बालक शब्द के रूप लिखिए ।
- प्र०4 आकारान्त शब्दों का एक A4 पेज में चार्ट बनाइए ।
- प्र०5 निम्नलिखित शब्दों को संस्कृत में लिखिए व चित्र बनाइए ।
i) गाय ii) बकसा iii) पेन iv) पेन्सिल
v) तासा vi) घड़ी vii) पुस्तक

KENDRIYA VIDYALAYA SANGATHAN, CHENNAI REGION

SUMMER HOLIDAY HOMEWORK 2018-19

CLASS: VII

SUB: SCIENCE

ACTIVITIES	LEARNING OUTCOME & DURATION
<p>1. Making useful items from only waste materials (decorative pieces/ scientific models) https://www.youtube.com/watch?v=1fDyTMeat0k</p> <p>2. <u>Preparing the bottle in 5 minutes</u></p> <p>Step1 : cut the top of the plastic bottle</p> <p>Step 2: thoroughly clean the bottle with boiling water.</p> <p>Step 3: pour clean gravel into the bottle up to 2 cm, gravel prevents the soil from rotting</p> <p>Step 4: Now fill the bottle with about 5 cm of fresh garden soil and try to keep the bottle clean to avoid gems and moulds. Boiling water should be poured into the gravel and soil in advance.</p> <p><u>PLANTING IN 15 Minutes</u></p> <p>Step 1: select suitable variety of plants.</p> <p>Step 2: plant should be healthy and plant it from the pot along with soil from where it has removed.</p> <p>Step 3: add ornamental pebbles.</p> <div data-bbox="952 1029 1500 1428"><p>PREPARATION AND MATERIALS</p><ol style="list-style-type: none">1. SCISSORS2. TRANSPARENT MASKING TAPE3. LARGE GLASS OR PLASTIC RECYCLED BOTTLE4. PLANT SELECTION (EXAMPLE: CACTUS, HERBS, GRASSES, MOSS)5. PEBBLES6. SOIL7. BOTTLE LEAD / CORK8. SPRAY BOTTLE9. CHOPSTICK</div>	

REGULATING THE BIOSPHERE

STEP 1: Add boiled water about 2 cm in the bottle and spray the leaves with water.

Step 2; Close the bottle so that it is air tight. During the first day check to see whether in the morning dew drops are formed in the inner walls of the bottle. The walls of the bottle should dry during the course of the day, if that is not the case, the biotope is too wet. Open the bottle again until the moisture level is correct. If there is no dew or the leaves of the plant are hanging down carefully add some water. These steps should possibly be repeated until the climate is correctly regulated.

Step 3: Afterwards attach the upper and bottom parts of the bottle with masking tape to ensure it is tightly sealed.

3. Visit a doctor and find out :

- a) Under what conditions does a patient need to be on a drip of glucose ?
- b) Till when does a patient need to be given glucose ?
- c) How does glucose help the patient recover ?

Write your discussion in A4 sheet submit to your science teacher

OBSERVE AND BE AMAZED :

Now you can see how a self contained small plant world

emerges in the bottle. However now and then check

the plants are healthy.

KENDRIYA VIDYALAYA SANGATHAN, CHENNAI REGION
2018-19 SUMMER VACATION HOME WORK

CLASS: VIII

SUB: ENGLISH

S.NO	TOPIC	LEARNING OBJECTIVES	EVALUATION CRITERIA	DURATION
1.	<p>MY SCRAP BOOK (Theme Oriented Work-Any one) Themes : Adventure/ Sports & Games/ Music & Dance/Eminent Personalities/Wonders of Science/ Gadgets/National Integration (Fascinating collections of anecdotes, latest news, personalities related to the field, pictures, poems composed, imaginary interviews with any one of the personalities on the theme chosen)</p>	To develop Writing & Creative skills	a. Content b. Expression c. Creativity d. Presentation e. Layout & Design	Summer Vacation= 50 days
2.	<p>GRAMMAR THROUGH DICTIONARY Make a Verb Table with 25 irregular verbs of day today use (not the verbs in Past & Participle ending with 'ed') Eg- Present Past Past Participle catch caught caught</p>	1.Basic Grammar 2.Spellings	ACCURACY	Two days/ A day
3	<p>Read to Narrate Read any short story collections and narrate a story in own words (ONE)driving home the value learnt</p>	1.To inculcate reading Habit 2. To develop Fluency and accuracy	a) Title b) Narration in own words c) Fluency d) Accuracy	Two Weeks

कक्षा-8

क्र.सं.	गृह-कार्य	उद्देश्य
1.	पंडित जवाहरलाल नेहरू की सचित्र जीवनी लिखिए ।	नैतिक मूल्यों का विकास
2.	किसी यात्रा का वर्णन कीजिए	लेखन कला का विकास
3.	'कर्मनिष्ठ डाकिया'(पोस्टमेन) पर सचित्र अनुच्छेद लिखिए।	भारतीय डाक की विशिष्ट जानकारी
4.	राष्ट्रमंडल खेलों में भारतीय खिलाड़ियों के योगदान का वर्णन करते हुए अपने मित्र को पत्र लिखिए ।	खेलों के प्रति जागरूकता

CLASS-VIII - MATHEMATICS
CHAPTER - I - RATIONAL NUMBERS.

1. Add $\frac{2}{5}$ to $\frac{1}{3}$. (ie) $\frac{2}{5} + \frac{1}{3}$.
2. Subtract $\frac{2}{5}$ from $\frac{5}{7}$.
3. Find: (a) $\frac{2}{3} + \frac{3}{4} + \frac{1}{2}$. b. $1\frac{1}{3} + 3\frac{2}{3}$ c. $8\frac{1}{4} - 2\frac{5}{6}$.
4. Multiply and reduce to lowest form:
a. $\frac{1}{3} \times \frac{15}{8}$ b. $3\frac{2}{5} \times \frac{4}{7}$ c. $4 \times 6\frac{1}{3}$ d. $3\frac{4}{7} \times \frac{3}{5}$.
5. Find: a. $2\frac{1}{3} \div \frac{3}{5}$ b. $3\frac{1}{5} \div 1\frac{2}{3}$ c. $4\frac{3}{7} \div 7$.
6. Using appropriate properties find: $\frac{2}{5} \times \left(-\frac{3}{7}\right) - \frac{1}{6} \times \frac{3}{2} + \frac{1}{4} \times \frac{2}{5}$.
7. Multiply $\frac{5}{12}$ by reciprocal of $\frac{15}{8}$.
8. Write the additive inverse of each of the following:
a. $\frac{-3}{-2}$ b. $\frac{5}{-9}$ c. $\frac{-3}{5}$ d. $\frac{1}{2}$ e. $\frac{23}{-5}$.
9. Find the multiplicative inverse of the following:
a. -1. b. 1. c. $\frac{-5}{8} \times \frac{-3}{4}$ d. -20 e. $\frac{1}{8}$.
10. Name the property under multiplication used in each:
a. $-\frac{2}{5} \times 1 = 1 \times -\frac{2}{5} = -\frac{2}{5}$ b. $-\frac{12}{13} \times \frac{13}{-12} = 1$.
c. $\left(\frac{1}{2} \times \frac{1}{3}\right) \times \frac{1}{4} = \frac{1}{2} \times \left(\frac{1}{3} \times \frac{1}{4}\right)$ d. $-\frac{8}{9} \times \frac{-4}{7} = \frac{-4}{7} \times -\frac{8}{9}$.
11. Write the multiplicative inverse of (a) 2 (b) 3 (c) 4
d. $\frac{4}{3}$ e. $\frac{2}{5}$ in decimal form.
12. Represent the following rational numbers on the no. line
a. $-\frac{1}{4}$ b. $-2\frac{1}{5}$ c. $-\frac{5}{6}$ d. $\frac{4}{9}$ e. $\frac{1}{8}$.
13. Find two rational numbers between (i) -1 and 0 (ii) -5 and 5.

14. write five rational numbers (a) smaller than -8
 b. greater than -3
15. Find five rational numbers between (a) $\frac{1}{4}$ and $\frac{1}{3}$.
 b. $-\frac{3}{2}$ and $\frac{5}{3}$ c. $-\frac{1}{3}$ and $-\frac{2}{3}$ (d) $\frac{2}{5}$ and $\frac{4}{5}$.
16. Arrange the following numbers in descending order:
 $-\frac{5}{6}$, $-\frac{7}{12}$, $-\frac{13}{28}$, $\frac{23}{-24}$.
17. what number should be added to $-\frac{7}{8}$ to get $\frac{4}{9}$?
18. The sum of 2 rational numbers is $-\frac{1}{2}$. If one of the numbers is $\frac{5}{6}$, find the other.
19. After reading $\frac{7}{9}$ of a book, 40 pages are left. How many pages are there in the book?
20. A drum full of rice weights 4016 kg. If the empty drum weights 1334 kg, find the weight of rice in the drum.
21. Ram earns ₹ 16000/month. He spends $\frac{1}{4}$ of his income on food; $\frac{3}{10}$ of the remainder on house rent and $\frac{5}{21}$ of the remainder on education of children. How much money is still left with him?

Activities.

- write five situations from our day-to-day life where we are using fractions & decimals.
- Make 12 cards in which different rational numbers are written. Arrange the cards in ascending or descending order of rational numbers by converting them into decimals. For example: $\frac{2}{3}$, $-\frac{1}{2}$, 0 , $\frac{3}{2}$, $\frac{4}{3}$, 5 , -8 , $\frac{5}{2}$, -23 , 213 , $-\frac{15}{3}$, $\frac{7}{2}$ are one set of 12 such rational numbers.
- Compare rational numbers by drawing a no. line on graph paper. a. $\frac{1}{2}$ — $\frac{1}{5}$ (b) $\frac{3}{5}$ — $\frac{2}{3}$ (c) -3 — $-\frac{1}{3}$
 [Fill appropriate sign]

CHAPTER - 2 - LINEAR EQUATIONS IN ONE VARIABLE

Solve:

a. $8x + 3 = 5$	e. $5x - 9 = 16$	(i) $x = \frac{4}{5}(t+10)$
b. $\frac{2}{7} + x = \frac{16}{7}$	f. $\frac{4x}{3} = 16$	(j) $8x + 4 = 3(x-1)$
c. $7x = 35$	g. $14y - 8 = 13$	(k) $2y + \frac{5}{3} = \frac{26}{3} - y$
d. $1.4 = \frac{y}{1.5}$	h. $\frac{2x}{3} + 1 = \frac{7x}{15} + 3$	(l) $3n = 5n - \frac{8}{5}$

- The Perimeter of a rectangular swimming pool is 154m. Its length is 2m more than twice its breadth. What are the length and the breadth of the pool?
- If you subtract $\frac{1}{2}$ from a number and multiply the result by $\frac{1}{2}$, you get $\frac{1}{8}$. What is the number?
- If father is twice as old as his son and also 29 years older than his son. What is the age of father?
- Three consecutive integers are as such when they are taken in increasing order and multiplied by 2, 3 and 4 respectively, they add up to 74. Find these numbers.
- The ages of Rahul and Haroon are in the ratio 5:7. Four years from now sum of their ages will be 56 years. Find their present age.
- The denominator of a rational number is greater than its numerator by 4. If the numerator is increased by 11 and the denominator is decreased by 1, the number obtained is $\frac{7}{3}$. Find the rational number.
- One of the two digits of a two digit number is three times the other digit. If you interchange the digits of this two-digit number and add the resulting number to the original number, you get 88. What is the original number?

9. Complete the following table:

No.	Statement	Linear equation
(i)	Half a number plus 6 is 11.	
(ii)	The ratio of 2 numbers is 3:4 and the sum is 28.	
(iii)	A car travels at a speed of 5 km/hr from Bhopal to Indore. After the journey of 3 hours, Indore is still 65 km away. Express the distance from Bhopal to Indore using variable s .	
(iv)	If 15 is subtracted from half of a number the result is 10.	
(v)	Sum of three consecutive multiples of 8 is 888.	
(vi)	Twice of a number added to half of the number equals to 25. Find the number.	

10. Solve: a. $\frac{x}{2} - \frac{3x}{4} + \frac{5x}{6} = 21$.

d. $\frac{x+17}{x+7} = 3$

b. $\frac{3y-2}{4} - \frac{2y+3}{3} = \frac{2}{3} - y$

e. $\frac{3y+4}{2-by} = \frac{-2}{5}$

c. $3(5z-7) - 2(9z-11) = 4(8z-13) - 17$

01. Understanding 2-Dimensional figures:

Write the area and perimeter of different kinds of quadrilaterals namely (a) square (b) rectangle (c) parallelogram (d) rhombus (e) trapezium.

02. write the properties of different types of quadrilaterals and also explain them with the help of rough sketch.

Number system:

write tables from 6 to 20, two times.

कक्षा - ११th

प्र० १ अकारान्त पुल्लिङ्ग शब्द (१०) लिखिए ।
प्र० २ राम और तामक शब्द के शब्द रूप लिखिए ।

प्र० ३ रूप लिखिए -

धावति _____

पठति _____

चलति _____

वदति _____

खेलति _____

प्र० ४ वाक्य रचना कीजिए -

i सः _____

ii _____ पठतः

iii) ते _____

iv) _____ धावति

v) तौ _____

vi) _____ खेलन्ति

प्र० ५ धातुरूप लिखिए -

पठ, लिख्, चल (लट् लकार)

प्र० ६ आकारान्त स्त्रीलिङ्ग (१०) शब्द लिखिए ।

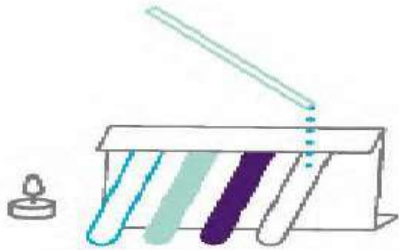
- प्र. 1 अकारान्त पुल्लिङ्ग राम, बालक शब्दरूप लिखिए
- प्र. 2 पठ धातु (लट्, लङ्, लृट्) रूप लिखिए
- प्र. 3 (5) श्लोक को सुन्दर लिखते हुए एक चार्ट बनाइए ।
- प्र. 4 किम् शब्द के रूप (पुल्लिङ्ग, स्त्रीलिङ्ग, नपुसंकलिङ्ग) में लिखिए
- प्र. 5 आकारान्त स्त्रीलिङ्ग मता, रमा शब्द का चार्ट तैयार कीजिए ।
- प्र. 6 'दुर्बुद्धिः विनश्यति' पाठ को चित्र के द्वारा बनाइए ।
- प्र. 7 निम्नलिखित शब्दों का संस्कृत में अनुवाद कीजिए चित्र भी बनाइए ।
- | | | | |
|---------|------------|--------------|------------|
| i) पेन | ii) ताला | iii) पेन्सिल | iv) घड़ी |
| v) बकसा | vi) अलमारी | vii) पुस्तक | viii) पंखा |

- प्र०1 पठ् और खाद् धातु के रूप चार्ट के माध्यम से लिखिए
- प्र०2 (5) श्लोक को सुन्दर लिखते हुए चार्ट तैयार कीजिए ।
- प्र०3 अकारान्त राम, बालक शब्द के रूप लिखिए ।
- प्र०4 आकारान्त शब्दों का एक A4 पेज में चार्ट बनाइए ।
- प्र०5 निम्नलिखित शब्दों को संस्कृत में लिखिए व चित्र बनाइए ।
- | | | | |
|---------|-----------|----------|--------------|
| i) गाय | ii) बक्सा | iii) पेन | iv) पेन्सिल |
| v) तासा | vi) घड़ी | vii) | viii) पुस्तक |

KENDRIYA VIDYALAYA SANGATHAN, CHENNAI REGION
SUMMER HOLIDAY HOMEWORK 2018-19

CLASS: VIII

SUB: SCIENCE

ACTIVITIES	LEARNING OUTCOME & DURATION
<p>1. Making useful items from only waste materials (decorative pieces/ scientific models) https://www.youtube.com/watch?v=1fDyTMeat0k</p> <p>2. Collect the labels from the 5 eatables (jams, jellies, lays, ice creams etc). Write down the list of chemical name printed on the labels and find out the date of manufacture & expiry. (in A4 sheet)</p> <p>1. POPSICLE STICK WATER RACE: KEY CONCEPT : Lotus effect, Hydrophobia, Hydrophilia. Scientific Principle behind: IN nature water cannot wet or stick on some surfaces such as lotus or banana, because these leaf surfaces repel water. So the water flows quickly on them. It is said that the leaves have hydrophobicity.(Water hating properties)</p> <p>PREPARATION AND MATERIALS Five ice cream sticks, one candle and matchbox, one crayon, one cardboard folded to a 20 degree slope.</p> <p>STEP 1: Take five ice-creams sticks. Step 2: coat the first ice-cream sticks with carbon (soot of the candle) Step3: Coat the second ice-cream stick with crayon by painting on it Step 4: Coat the third ice-cream stick with rubbing the liquid candle wax on the stick. Step 5: Fourth stick is left naked. Step 6: Put all four ice cream sticks on a 20 degree slope. Step 7. Put a drop of water on each ice cream sticks (one at time) Observe the shapes and the motions of the droplets and tabulate the observations.</p> 	<p>1. Learn to manage waste materials based on 3 R principle</p> <p>2. Creating awareness about the chemical used in preservation of food items</p> <p>3. Understanding how water moves on different Surfaces. Able to compare the lotus effect On different surfaces.</p>