

New Era Public School, Mayapuri
Holiday Homework (2021-22)
Class: VIII
Subject: English

Q1. Reading is ever evolving and the best way to fire up your imagination. Read a book by any of the following authors:

Sudha Murthy

Enid Blyton

Ruskin Bond

a. Based on your reading, transform your favourite character from the story into a hand puppet.

b. Also write a diary entry on how this book will help you in shaping your attitude towards things now and in the long run.

Q2. Interview your parents/grandparents to find out about the things they used to do when they were your age which is no longer followed or done.

Example – Leisure time activities, games, customs and practices (Minimum 10 questions)

Note – Make it interesting. Your interview must have a lot of details for the reader to understand the yesteryears clearly. Have fun!

Subject: Mathematics

A) PROJECT (To be done on A4 size sheets)

Task 1:

Collect the data of IPL matches 2021 from 9th April to 13th April. Make a table (as given below) of runs scored by the winning team on each day and represent the information graphically through a bar graph by choosing an appropriate scale. Colour the bars with the respective colours of teams.

Winning Team	Date (x-axis)	Runs scored by winning team (y-axis)
Royal Challengers Bangalore	9 th April	160

Answer the following questions based on the table formed.

- Find the difference of scores of the winning team on day 1 and day 5.
- On which date the winning team scored the maximum runs? Also name the team.
- How much did the winning teams score in total for all five days?
- Find the ratio of runs scored by the winning team on 9th April and on 15th April.
- Find the average runs scored by the winning teams on all five days.

Task 2:

Draw the adjoining figure. Solve the questions given below and colour the figure with the help of colour codes.

A. $2\frac{1}{2} \times 4\frac{5}{6} = \dots\dots$

H. $\frac{1}{2} \times \frac{3}{4} \div \frac{-6}{7} = \dots\dots$

B. $\frac{-2}{3} \div \frac{9}{10} = \dots\dots$

I. $\frac{-6}{7} \times \frac{-8}{9} = \dots\dots$

C. $3\frac{1}{8} \times -4\frac{2}{6} = \dots\dots$

J. $\frac{-4}{5} \div \frac{9}{10} + \frac{2}{3} = \dots\dots$

D. $4\frac{2}{8} \div \frac{4}{6} \times \frac{1}{3} = \dots\dots$

K. $\frac{7}{3} + 2\frac{4}{5} = \dots\dots$

E. $\frac{2}{4} \times \frac{6}{8} \div \frac{4}{5} = \dots\dots$

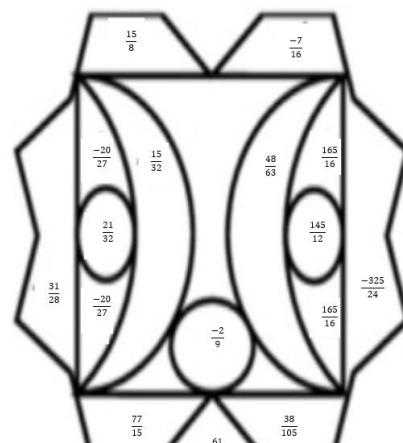
L. $1\frac{6}{7} - \frac{3}{4} = \dots\dots$

F. $2\frac{1}{2} \times 4\frac{1}{8} = \dots\dots$

M. $\frac{1}{3} + \frac{3}{5} - \frac{4}{7} = \dots\dots$

G. $\frac{-7}{8} \times \frac{-6}{8} = \dots\dots$

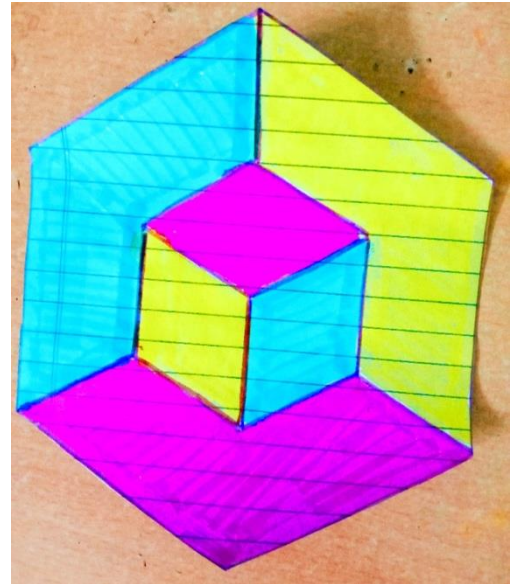
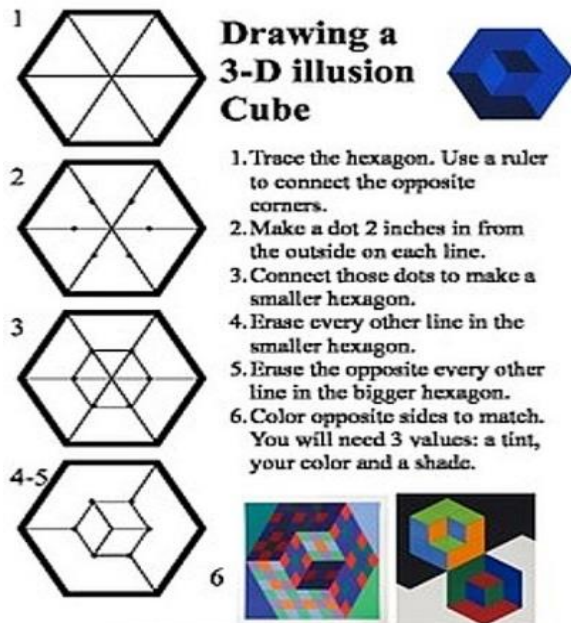
N. $\frac{2}{3} - \frac{1}{4} + \frac{3}{5} = \dots\dots$



A, G	RED
B, F	YELLOW
C, L	GREEN
D, H	BLUE
E, I	PINK
J	ORANGE
K, M	PURPLE
N	BLACK

Task 3: Draw a regular hexagon of side 7cm to make a 3D illusion cube with the steps given below in the picture.

- Count the number of diagonals in the regular hexagon and verify the formula,
Number of diagonals = $n(n-3)/2$,
where n is the number of sides of the polygon.
- Find the sum of interior angles of a hexagon using the formula,
Sum of interior angles of a polygon = $(n-2) \times 180^\circ$,
where n is the number of sides of the polygon.



B) ASSIGNMENT (To be done in Mathematics notebook)

- Simplify: (i) $\left(\frac{-4}{3}\right) + \left[\left(\frac{-12}{5}\right) - \frac{6}{7}\right]$ (ii) $\frac{3}{5} + \frac{7}{3} + \frac{(-11)}{5} + \frac{(-2)}{3}$
(iii) $\frac{3}{5} \times \frac{-7}{8}$ (iv) $\frac{-8}{3} \times \frac{4}{-15}$ (v) $\frac{6}{49} \times (-7)$
- Find the sum of multiplicative inverse of $\left(\frac{-9}{13}\right)$ and the additive inverse of $\frac{5}{6}$.
- Represent the following on a number line. (Draw separate line for each part)
(i) $\frac{7}{3}$ (ii) $\frac{2}{7}$ (iii) $\frac{-5}{4}$ (iv) $\frac{-2}{-3}$
- Find the sum of angles of a convex polygon with 9 sides.
- Divide the sum of $\left(\frac{-5}{11}\right)$ and $\left(\frac{-4}{7}\right)$ by their product.
- Is 0.7 a multiplicative inverse of $\left(\frac{10}{7}\right)$? Justify.

7. Divide the sum of $\left(\frac{3}{7}\right)$ and $\left(\frac{-6}{13}\right)$ by their difference.
8. Using distributive property of multiplication, simplify the following:
 a) $\frac{7}{4} \times \left(\frac{5}{8} + \frac{1}{2}\right)$ b) $\frac{3}{8} \times \left(\frac{4}{7} + \frac{-11}{7}\right)$
9. Solve: $\frac{3}{8} \div \left(\frac{-51}{24} \div \frac{17}{12}\right)$
10. Find a rational number equivalent to $\left(\frac{-24}{45}\right)$
11. How many diagonals does a regular heptagon have?
12. Write the names of regular polygon of (i) 5 sides (ii) 7 sides (iii) 8 sides
13. Write the name of the property used in each of the following
 a) $\frac{3}{5} + \frac{7}{6} = \frac{7}{6} + \frac{3}{5}$ c) $\frac{2}{7} + 0 = 0 + \frac{2}{7} = \frac{2}{7}$
 b) $\frac{-4}{5} + \frac{4}{5} = 0$ d) $\frac{4}{9} + \left(\frac{1}{2} + \frac{5}{7}\right) = \left(\frac{4}{9} + \frac{1}{2}\right) + \frac{5}{7}$
14. Verify: $\frac{a}{b} + \frac{c}{d} = \frac{c}{d} + \frac{a}{b}$ for $a = (-17)$, $b = 40$, $c = (-16)$ and $d = 51$.
15. Find five rational numbers in between the given rational numbers.
 (-7) and (-6) (ii) $\frac{11}{5}$ and $\frac{12}{5}$ (iii) $\left(\frac{-6}{7}\right)$ and $\frac{2}{3}$ (iv) $\left(\frac{5}{2}\right)$ and $\frac{3}{5}$

Subject: Science

GENERAL INSTRUCTIONS

1. The holiday homework is divided in two parts
 - (a) Activity based on **chapter 2- Microorganisms- Friend and Foe**
 - (b) Assignment based on **chapter 1- Food Production and Management**
2. The assignment should be done neatly in the Science notebook
3. Both activity and assignment are to be done individually.

(A) ACTIVITY

Misleading information is sowing fear and confusion in our communities. Students, let's spread facts, not fear in our fight against Corona Virus.

This will help educate people, reduce all misinformation and enable everyone to stay healthy and safe.

Objectives:

- To know the origin, causes, symptoms and preventive measures of COVID-19 disease.
- To enlist the precautions to be taken against COVID-19 virus. .
- To spread awareness regarding COVID-19 outbreak.

Methodology

1. Students are going to prepare a brief research report on COVID-19 virus outbreak. They may include the following points:
 - Causative organism
 - Origin
 - Mode of Transmission
 - Symptoms
 - Treatment
 - Preventive measures, giving Do's and Don'ts
 - At the end, pen down a write up on "Life after COVID-19 Era"
2. They will record everything in a file / PPT / scrapbook. If possible, they will justify their research report with pictures/diagrams to make it more presentable and creative.

Evaluation:

- Each student will be evaluated on the basis of:
 - Active participation.
 - Honesty and Dedication.
 - Presentation.
 - Innovation.

(B) ASSIGNMENT

- Q1. Pick out the odd one from the following words given in the box and give reason for it.
Plough, Seed Drill, Hoe, Chain Pump, Sickle

- Q2. If you are given a dry piece of land for cultivation, what will you do before sowing the seeds?
- Q3. Meena wants to practice crop rotation in his field. Suggest a Rabi crop and a Kharif crop which will replenish his field with nitrogen. Explain how does these crops replenishes the field with nitrogen?
- Q4. What are organic foods?
- Q5. (a) Name the tool used with a tractor for sowing seeds in a field.
(b) What are the advantages of using this tool?
- Q6. Despite favourable climatic conditions, a farmer's crop failed to give good yield. Give the possible reasons for this.
- Q7. As a part of eco-club activity, students were asked to raise a kitchen garden in the school premises. They were provided with some materials given below. List the other materials you would require.

khurpi, water-can, spade, shovel

How will you plan this garden? Write the steps.

Note: You have been asked to use only environment friendly materials.

- Q8. Paddy is a major cereal crop in our country.
(a) In which season is paddy cultivated?
(b) Discuss the method of sowing.
(c) What measures must be taken to prevent spoilage and insect attack of harvested grains.
- Q9. Given below is a conversation between two farmers Heera and Beera.
Heera: Brother Beera, your maize crops looks beautiful! They have grown pretty fast.
Beera: Yes, I have sprayed urea this time. What about you?
Heera: Well, I am still relying on good old cow dung. I am saving money for buying a tractor.
Beera: That's good. Tractor saves a lot of time and labour.
Heera: Yes, it's been very labour intensive for me and now these weeds have come up.
Beera: Try weedicides, they are very effective.
Now answer the following questions.
(a) List the practices which are not environment friendly and why?
(b) What is the advantage of modern agriculture implements over traditional ones?
(c) Name one weedicide and the precaution farmers must take during its application.
- Q10. Despite being one of the growing economies, our country still has a large section of population going hungry and malnourished. Do you think an efficient crop production mechanism is the only solution to this? What else needs to be done to root out hunger and malnutrition from our country?

Subject: Social Science

Prepare a Power Point Presentation(PPT) with following details-

1. The total length of the PPT should not be more 10-15 slides.
2. The PPT should be original. Downloaded PPTs will not be accepted.
3. The PPT should include illustrations, pictures, animations and logical text.
4. The PPT should be developed and **presented in this order.**
 - Project's Title and Student's Information
 - Introduction
 - Specific Details
 - Summary and Conclusion

(Choose Any ONE)

1.India is a vast, diverse country with a rich history of weaving.

Make a PPT on Silk Fabrics, Traditions and Patterns of South India

(Hints-Indian Textiles in the world / European markets, major centres of weaving in India in the 18th century, cities in South India famous for different silk fabrics, pictures related to it, process of how it is made, importance in world market) (Ref – History Chap 6)

2.Lack of access to proper Public Facilities affects people's lives.

Make a PPT on the existing Public Facilities provided by the Government of India
(Hints-What are Public Facilities? Who is responsible for providing it? Where does the money come from? Art 21, Disparities in different states, Sustainable Development Goals) (Ref- Civics Chap 9)

3. The desire for equality, dignity and respect is not new.

Make a PPT on the condition and treatment of marginalised communities (Schedule castes and Schedule tribes) in our country.

(Hints- Articles/Acts listed in the Constitution of India like Article 15/Act of 1989, Meaning of important words – Manual Scavengers/Dalits/Adivasi, history of atrocities faced by the marginalised communities and efforts of notable poets like Kabir to maintain social balance in the 15th century, Works done by notable Activists like Bezwada Wilson and others) (Ref -Civics Chapter 7 and Chapter 8)

विषय-हिंदी

1. पर्यायवाची शब्द, अनेकार्थक शब्द, वाक्यांश के लिए एक शब्द तथा मुहावरों का संकलन कर 'मेरी व्याकरणमाला' पुस्तक का निर्माण कलात्मक ढंग से करें। छात्र अधिक से अधिक शब्दों का संकलन करें।
2. समाज के लिए सहयोग देने वाले किन्हीं दो कर्मवीरों/दो संस्थाओं की सचित्र जानकारी एकत्र कर ए-4 शीट पर लिखें।
3. अपनी कलात्मक रुचि को (पेंटिंग, बागवानी, कुकिंग या अन्य कोई) चित्र द्वारा दर्शाते हुए अपना अनुभव लिखें।

विषय-संस्कृत

- प्रश्न 1. किन्हीं दो श्लोकों को अर्थ सहित लिखकर कंठस्थ करें।
- प्रश्न 2. 'पठ्' धातु चारों लकारों (लट्, लृट्, लङ्, लोट् लकार) में लिखकर कंठस्थ करें।
- प्रश्न 3. एक से पच्चीस तक संख्यावाची शब्द कलात्मक ढंग से संस्कृत में उत्तर पुस्तिका में लिखें।

Subject:French

1. Décrivez votre famille .(Describe your family)
2. Quelles sont les mesures qu'on doit prendre pendant la pandémie COVID 19?(what are the mesures that we should take during the pandemic COVID 19? Make a poster and you may paste or draw images.)
3. Do Leçon-1 from cahier d'exercice.(Leave l'impératif)

Note : Activity to be done in your French notebook . You can add pictures with description to add creativity.

Subject: Computer Science

Make a video /presentation on 'Artificial Intelligence- A new way of life'. You can take real life examples using these technologies.

(Software to be used-Any video editing software like vita/inshot/Filmora/Ms Powerpoint)