APEX PUBLIC SCHOOL

Holiday Homework 2023-24

Vacation is the time for children to explore their myriad interests and indulge in various activities which would lead to their all-round development. Let's utilize this golden period for family reunion and reiterate family ties with your loved ones. Let's cheer for the 3R's- Rejuvenation, Relaxation and Rebonding!

Class 8

Art integration project

Prepare a project on the topic "Traditional Handicrafts of Lakshadweep, Andaman & Nicobar Islands".
Use A4 size sheets and paste relevant pictures.
*This project is compulsory for all students.

English

Task 1 – Novel scrap Book

General Guidelines for Students:

All students will create a novel scrapbook. A novel scrap book is basically a variety of activities based on the novel (Your favourite novel or the one which you have read during summer holidays) that demonstrates that you have read the novel. The purpose of this task is to create a way for students to display their understanding of the novel in a way that is fun, creative and challenging!

Format: Your scrapbook can be in a traditional scrapbook style or in a folder or binder filled with paper. You may use coloured paper if you wish. In general, scrapbooks are decorative and contain many illustrations. Pictures may be images from the computer, newspapers, magazines or they may be hand drawn illustrations. Your name, class and section should be on the outside of the scrapbook.

Your scrapbook will be divided into the following sections:

a) Index: It will contain list of contents of your scrap book with reference to the pages on which they are mentioned.

b) Characters: This section will contain the names of all the characters and character description of any character/ characters from your favourite novel. If you would like to include other characters, please feel free to do so.

c) Setting: Identify two major settings of the story and have a visual depiction of each setting. Describe each setting and list a minimum of three important events that occurred in that setting.

d) Comic Strip: Make a comic strip of your favourite scene.

TASK - 2 Read chapter 4 "Set Our Children Free" (A Speech by Kailash Satyarthi) of English Reader your Course Book and on the basis of your understanding, write a speech on the topic - Child Labour or make a poster using A- 3 sized sheet on the same topic.

Task – 3 Read the poem The Lake Isle of Innisfree from your book English Reader and write the rhyming scheme and the poetic devices (used in the poem) in your fair note book.

Task – 4 Read chapter 3 'Ranji's Wonderful Bat' from your book English Reader and write the summary of the chapter in 100 words in your fair notebook.

HINDI

नोटः अवकाश गृहकार्य एक अलग काॅपी में करें।

1.कक्षा में करवाए गए सभी पाठों को पुनः पढ़ें व याद करें।

2.भारत में मनायें जाने वाले विभिन्न त्योहारों की सूची बनाइए।

3.योग का महत्व -विषय पर एक पोस्टर बनाएं।

4.पुस्तक में दिए गए मुहावरों, पर्यायवाची व विलोम शब्दों का अभ्यास करें।

5.हिन्दी पाठ्य पुस्तक में किसी एक कविता को कंठस्थ करें।

6.'पढ़ाई, परीक्षा और परिणाम' पाठ के आधार पर पढ़ाई के महत्व पर प्रकाश डालिए।

निम्नलिखित में से किसी एक विषय पर अनुच्छेद लिखिएः-

क. अभ्यास का महत्व ख. कम्प्यूटर आज की जरूरत ग.विद्यार्थी और अनुशासन

7.अपने अनुक्रमांक अनुसार चार्ट बनाएं :-

1-6 भाषा के विविध रूप

7-12 संधि

13-18 पर्यायवाची शब्द

19-24 उत्पत्ति के आधार पर शब्द भेद

25-30 संज्ञा

31-36 क्रिया के भेद

37-42 स्वर और व्यंजन

SANSKRIT

नोटः इस कार्य को अपनी संस्कृत की नोटबुक में करें।

1.शब्द रूप लिखिएः-

राम, गुरु, लता,नदी,अस्मद,युष्मद किम्(पुल्लिंग, स्त्रीलिंग, नपुंसक लिंग),एतत(पुल्लिंग, स्त्रीलिंग)

2.धातु रूप :-

(क)गम्, क्रीडा(लट् लकार,लृट् लकार,लड्. लकार,लोट् लकार,विधिलिड्. लकार)

(ख) पा(पिब्),कृ(करना)- [पांचो लकार] (ग)मुद, सेव,दृश पठ् [पांचो लकार]

MATHS

Q1. Explain the following properties with the help of 5 examples of each and also write which property obeys the rule and which is not.
   • closure property for rational number.
   • commutative property for rational number.
   • associative property for rational number.
   • distributive property of multiplication over addition and subtraction for rational number.

Q2. Explain the concept of rational number on number line with the help of 10 examples.

Q3. Explain the concept of solution of a linear equation in one variable with the help of 5 examples (examples must be different from text book questions).

Q4. Solve 5 statement problems related to topic "linear equations in one variable" (examples must be different from text book questions and should be related to real life-based situations)

Q.5 Solve following Worksheets given below.
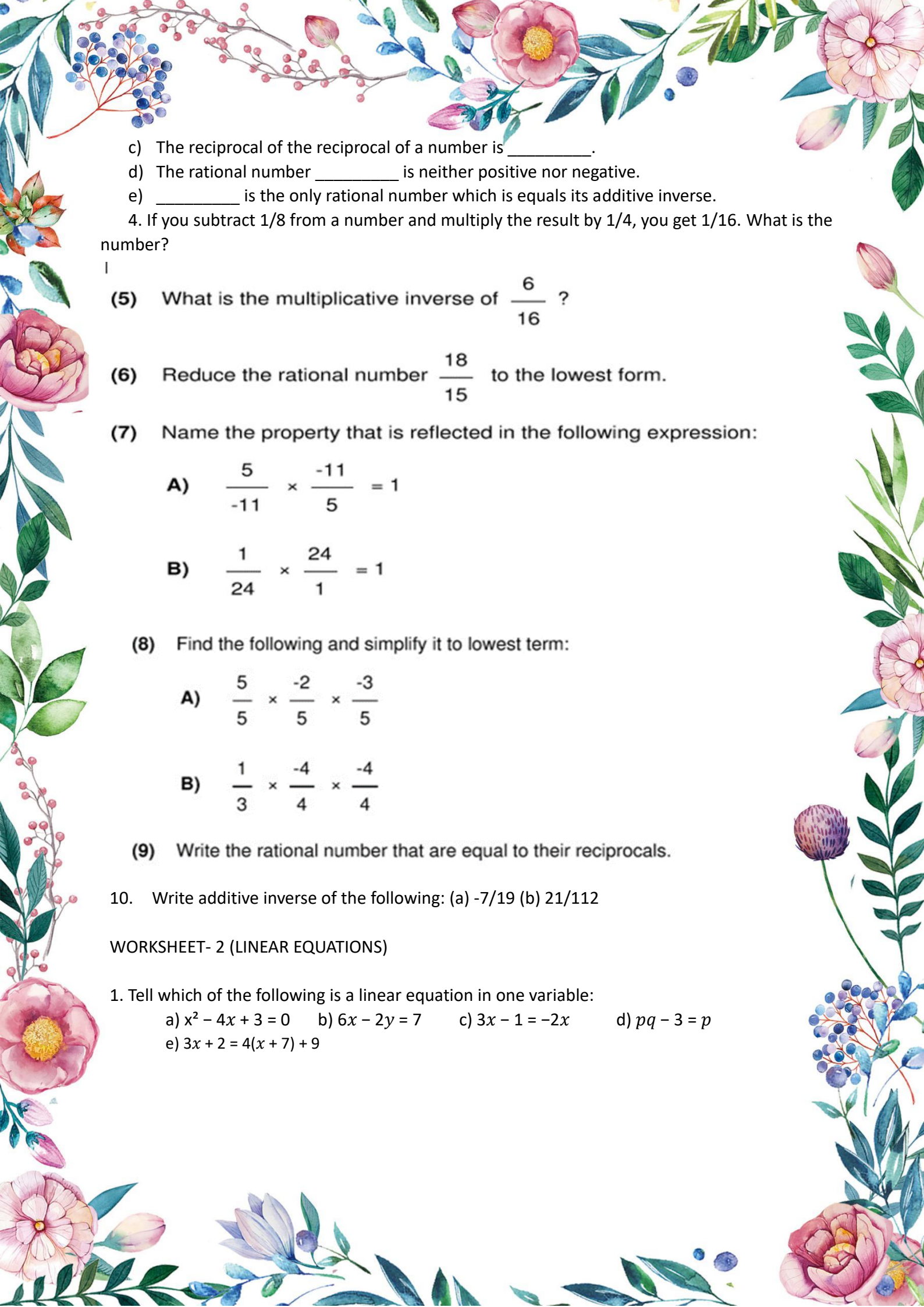
WORKSHEET- 1 (RATIONAL NUMBERS)

1. Find two rational numbers between 1/8 and 2/9.
2. The product of two rational numbers is - 28/81. If one of them is - 2/3 then find the other.
3. Fill in the blanks:
a)   The product of a number and its product is _____.
b)   The rational number _____ has no reciprocal.

c) The reciprocal of the reciprocal of a number is _____.

d) The rational number _____ is neither positive nor negative.

e) _____ is the only rational number which is equals its additive inverse.

4. If you subtract 1/8 from a number and multiply the result by 1/4, you get 1/16. What is the number?

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

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

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

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

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

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

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

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

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

10.   Write additive inverse of the following: (a) -7/19 (b) 21/112

WORKSHEET- 2 (LINEAR EQUATIONS)

1. Tell which of the following is a linear equation in one variable:

    a) $x^2 - 4x + 3 = 0$ b) $6x - 2y = 7$ c) $3x - 1 = -2x$ d) $pq - 3 = p$

    e) $3x + 2 = 4(x + 7) + 9$

(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) State whether the following statements are true or false:

a) A term may be transposed from one side of the equation to the other side but its sign will not change.

b) We cannot subtract the same number from both sides of an equation.

c) $x = 1$ is the solution of equation $4(x + 5) = 24$

(5) Two supplementary angles differ by 500. Find measure of each angle.

(6) The numerator of a fraction is 2 less than the denominator. If 3 is added to both the numerator the fraction becomes 34. Find the fraction.

Q.7 Solve the following equations and check the solutions:

a) $5 - 3(5x + 2) = 4(7 - 3x) + 1$

b) $\frac{6x+1}{3} + 1 = \frac{x-3}{6}$

c) $\frac{x+1}{2x+3} = \frac{3}{8}$

d) $0.3(6 - x) = 0.4(x + 8)$

Q.8 Solve:

$$\frac{x+3}{2} - \frac{x-2}{2} = 1. \text{ Hence find } p, \text{ if } \frac{1}{x} + p = 1$$

(9) The two perpendicular sides of a right-angled triangle are in the ratio 3:4 and it's perimeter is 96 cm. Find the three sides.

(10)

Find the value of x:

a) $3 + \frac{x}{4} = 5$

b) $\frac{x}{2} - \frac{x}{3} = 4$

c) $ax + b = 0 \text{ where } a, b \text{ are any integers}$

d) $\frac{50}{x} + 4 = 14$

SCIENCE

1. Revise the chapters done in class and learn the question and answer.
2. Make a model on any one of the following topics.
   i)Electroscope
   (Reference link: https://www.youtube.com/watch?v=xanDes0tLOY)
   ii)Guitar (musical instrument)
   (Reference link: https://www.youtube.com/watch?v=niFByvePA9g)
3. Make a project in file on the topic 'use of modern methods in agriculture.
4. Plastic are useful but indiscriminate use of it leads to environmental pollution.   To reduce plastic waste, reuse any plastic container to make planter, bird feeder or anything creative
5. Plants are integral part of our life. Grow some plant in your surroundings and take care of it. Use Kitchen waste as manure.
6. Make a PowerPoint presentation on the topic 'Solar system '.
7. Complete the worksheet given in class.

SST

1. Revise all the chapters taught in the class.
2. Prepare a list of democratic and non-democratic countries.
3. Prepare a web chart showing different types of resources with categories and subcategories of resources like-Natural Resources Human made resources.
4. Prepare a timeline of various events from coming of Britishers to the revolt of 1857.
5. Paste pictures of all the Governor Generals and write about the policies adopted by them in A4 sheets.
6. Prepare map of:
   o Important Centers of Indian National Movement
   o Major crops of India
7. Prepare a chart on any one of the following topics
   o Sources of information of modern history
   o Fundamental Rights
   o Fundamental Duties
   o Natural Resources Conservation and management of natural resources

COMPUTER

(A)Prepare PPT on following topics
   1. Components required for a Network.
   2. Types of computer networks
   3. Types of Network Topologies l
   4. Network Protocol
           * By Changing themes of slides.
           * By Changing font colour
            * Insert required pictures.

* Insert required videos

* Insert your sound also.

(B) Create table using Datasheet View and Design View. (Fun in Lab page 30,31)

(C) Complete your notebook work and book work of the following chapters

Ch 1: Computer Networking

Ch 2: Introduction to MS Access 2010

(D) Make one model/ drawings (on Cartridge Sheets) on any topic from your book.

ART