MAHARSHI PATANJALI VIDYA MANDIR

CLASS 7
HOLIDAY HOMEWORK

2024-25

ENGLISH

We want to encourage our students to inculcate the habit of reading. Keeping the thought in our mind we suggest the following books to be read during the summer vacations –

Rusty Runs Away by Ruskin Bond

Malgudi Adventures – Classic Tales for Children by R.K. Narayan

Creative work assignment – The students will use a scrap book to adapt the chapters of the 'Rusty Runs Away – by Ruskin Bond' classic story about adolescence in the form of a *comics book* .

The following chapters will be adapted with pictures and dialog boxes in a comics book framework using 3-4 sheets each for every chapter ,in the scrap book –

The Window

The Prospect of Flowers

A Job Well Done

The Woman on Platform No. 8

Running Away

The Playing Fields of Shimla

It Happened One Spring

The scrapbook will be assessed once the school re-opens. The students are encouraged to use their creative artistic skills for the assignment.

Students are required to go through the 'Words Often Confused' from the English Grammar syllabus , thoroughly .

HINDI

1) मधुप हिंदी पाठमाला से 1, 2,3 पाठों की पुनरावृत्ति कीजिएl

2) हिंदी व्याकरण पाठ 1 और 2 पुनरावृति कीजिए ।

3) शब्द -भंडार (पाठ 4) से1 से 20 तक के पर्यायवाची, विलोम, और वाक्यांश बोधक शब्द हिंदी व्याकरण कॉपी में लिखिए और याद कीजिए।

4) 5 औषधीय वाले वृक्ष या पौधों के बारे में संक्षिप्त परिचय देते हुए उनके नाम सहित चित्र फाइल पेज पर चिपकाएं।

SANSKRIT

1-कक्षा में पढ़ाए गये पाठों को याद कीजिये।

2- वन्दना को सचित्र उत्तर पुस्तिका में लिखिए एवं याद कीजिए।

3- शब्द रुप नदी तथा धातु रुप कृ के चारों लकार उत्तर पुस्तिका में लिखिए एवं याद कीजिए।

4- कवेः वृत्तम् पाठ कीकहानी को हिन्दी में लिखिए।

BIOLOGY/CHEMISTRY

- Read Chapter 1 Nutrition in plants and learn the Ques/Ans and Exercises from the book.
- Read Chapter 1 Physical and Chemical Changes and learn the Ques/Ans and Exercises from the book.
- Do ACTIVITY 1, 2, 3, 4, 5 ,6 of Chapter 1 in your copy with diagrams.

Do the following Questions in your copy.

1. Nitrogen is an essential nutrient for plant growth. But farmers who cultivate pulses crop do not apply nitrogenous fertilizers during cultivation .Why?

Can you give me a name?

2. Solve each of the following riddles by writing the name of the organism and its mode of nutrition.

(a) I am tall but I cannot move. I am green and can prepare my own food.

(b) I live in water; people keep me in an aquarium and feed me.

(c) I am small and I can fly. I disturb your sleep, bite you and suck your blood which is my food.

(d) I am white and soft. I grow well in the rainy season. Children pluck me from the ground and admire me. I absorb nutrients from decomposed dead parts of plants and animals in the soil.

3. Collect more information about two Insectivorous Plants other than given in your book. Paste

The picture and discuss their mode of nutrition.

4. Write word equations for two chemical reactions with the help of materials given below.

Air, copper sulphate , iron, vinegar, iron oxide, carbon dioxide, iron sulphate, copper, limewater, water.

5. Ramesh describes how roti is made in his house in 5 steps. Here are the 5 steps:

(i)Wheat grains are ground to make flour.(ii) Flour is mixed with water to make soft dough. (iii) Small balls of dough are flattened out with a rolling pin. (iv) The flat round dough is cooked on a pan. (v) The crisp roti is coated with a layer of butter.

In which of the above steps does a physical change take place and in which one does a chemical change take place?

Draw or paste at least five pictures each related to Physical and chemical changes that you observe in your daily life. Justify your observation also.

PHYSICS

1.) Give one word:

a) The distance moved by an object in a unit time is called_____.
b) Motion of objects can be represented in pictorial form by their_____.
c) A change in position relative to reference point is called_____
d) The speedometer of a vehicle measures the speed in _____.
e) The _____ of a pendulum remains constant if length is fixed.

2.) Solve the following questions:

a) A simple pendulum takes 32 sec to complete 20 oscillations. What is the time period of the pendulum?
b) If a bus travels 54km in 90 minutes. Find the speed of the bus in m/sec.
c) A car travels first 50km at a speed of 50km/hr. It travels the next 50km at 25km/hr speed. What is the average speed in the total 100km journey?
d) A truck takes 20 minutes to cover a distance of 15km. calculate its speed in km/hr.

COMPUTER

1.) Convert the following binary numbers into decimal numbers.

i.1101101 ii.1011011 iii. 1101100

2.) Do the following conversions.

(Decimal to Octal and Hexadecimal)

i.$(8350)_{10}$ ii. $(4657)_{10}$ iii. $(1456)_{10}$

3.) Perform the binary addition for the following.

a. 1000+0111 b. 1001101+1000101101

4.) Perform the binary subtraction for the following.

a. 110111-10110 b. 10011-01010

5.) Perform the binary multiplication for the following.

a.1101x110 b. 10110x1010

HISTORY/ CIVICS

Find out the major changes that you have seen in and around your city in the last three years. Write about them on a sheet. Paste relevant pictures to support your answer.

GEOGRAPHY

Assignment: Make a colourful poster on the topic 'Save Environment ' to create awareness . (Activity for Environment Day, 5th June 2024)

MATHEMATICS

1) Fill in the blanks :

(i)Integers contain whole numbers and _____ numbers.

(ii)Integers are not closed for _____ operation.

(iii)The additive identity for integers is _____ .

(iv)The sum of an integer and its additive inverse is always _____ .

(v)The next term of the pattern -8,-3,2,7 is _____ .

(vi)The operation 'of' represents _____ .

(vi)The reciprocal of proper fraction is _____ fraction .

(vii)Half of half is _____ .

(viii)A fraction whose numerator is 1 is known as _____ fraction .

(ix)The product of a fraction and its reciprocal is always equal to _____ .

(x)If the integer -1 is multiplied _____ number of times , the product is -1.

2) Solve the following :

a) Find the value of (-25)x(-32) using distributive property.
b) Simplify :

- $639 - (-436) + (-839)$
- $69 - [34 - \{85 + (16 - \overline{17 - 34})\}]$
- $18 - (-5)[\{5 - \overline{8 - 3}\} \div 5\{3 + (-3) \times (-6)\}]$
- $26 - 6 \times 2 \, of \, 9 + (40 - 20) \div 5$
- $4\frac{4}{11} \, of \, \left[1\frac{3}{4} - \{2\frac{1}{5} - \frac{1}{3}(1\frac{3}{5} - 1\frac{1}{2})\} \times \frac{5}{13}\right]$

c) Subtract the sum of 873 and -3000 from the sum of -904 and 7093 .

d) The sum of two integers is 310. If one of the integer is -80, find the other integer .

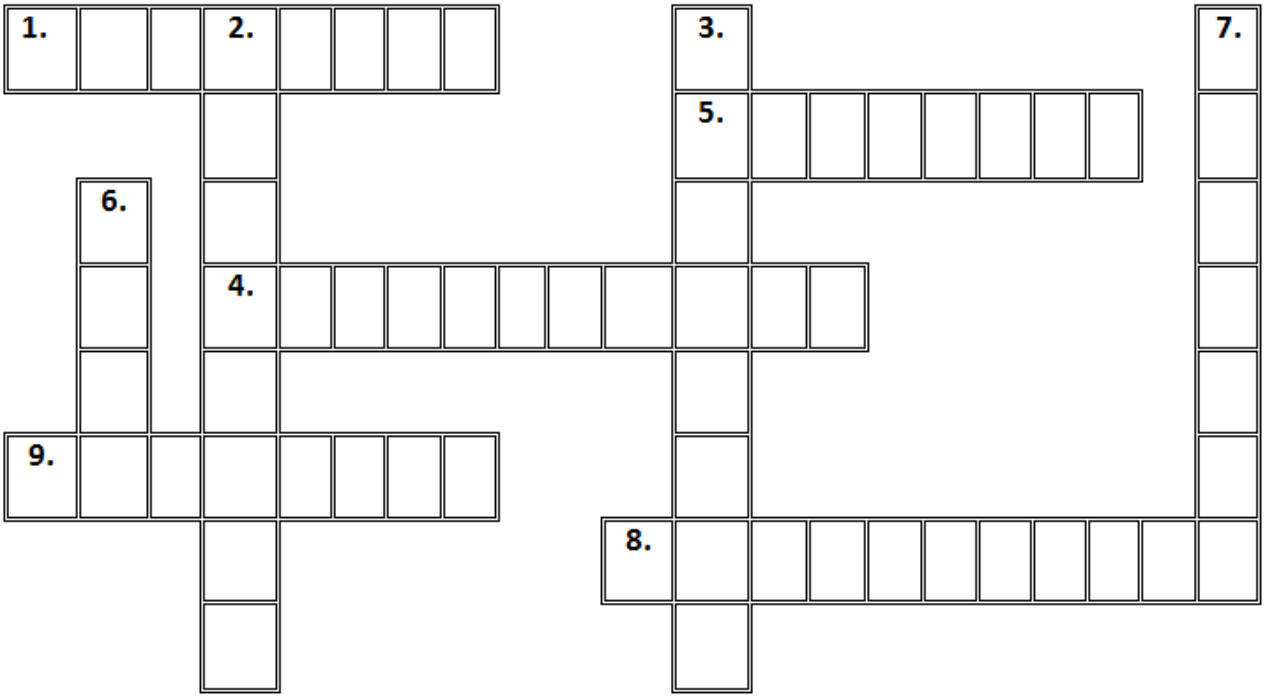
e) Ridhima solved $\frac{1}{7}$ part of an exercise while Rakhi solved $\frac{3}{5}$ of it .Who solved greater part and by how much ?

f) In a group of 80 people , $\frac{3}{5}$ of the total persons like tea, $\frac{1}{4}$ of them like coffee and the remaining like none of the two . Find the number of persons who like (i)tea (ii)coffee .Also find what fraction of the total persons like none of the two beverages .

g) A fruitseller buys 720 fruits of which $\frac{3}{4}$ are apples. Of all the apples he brought , $\frac{1}{3}$ were found to be rotten .If he sold all the good apples at Rs $5\frac{1}{4}$ each .How much money did he receive on selling all the good apples .

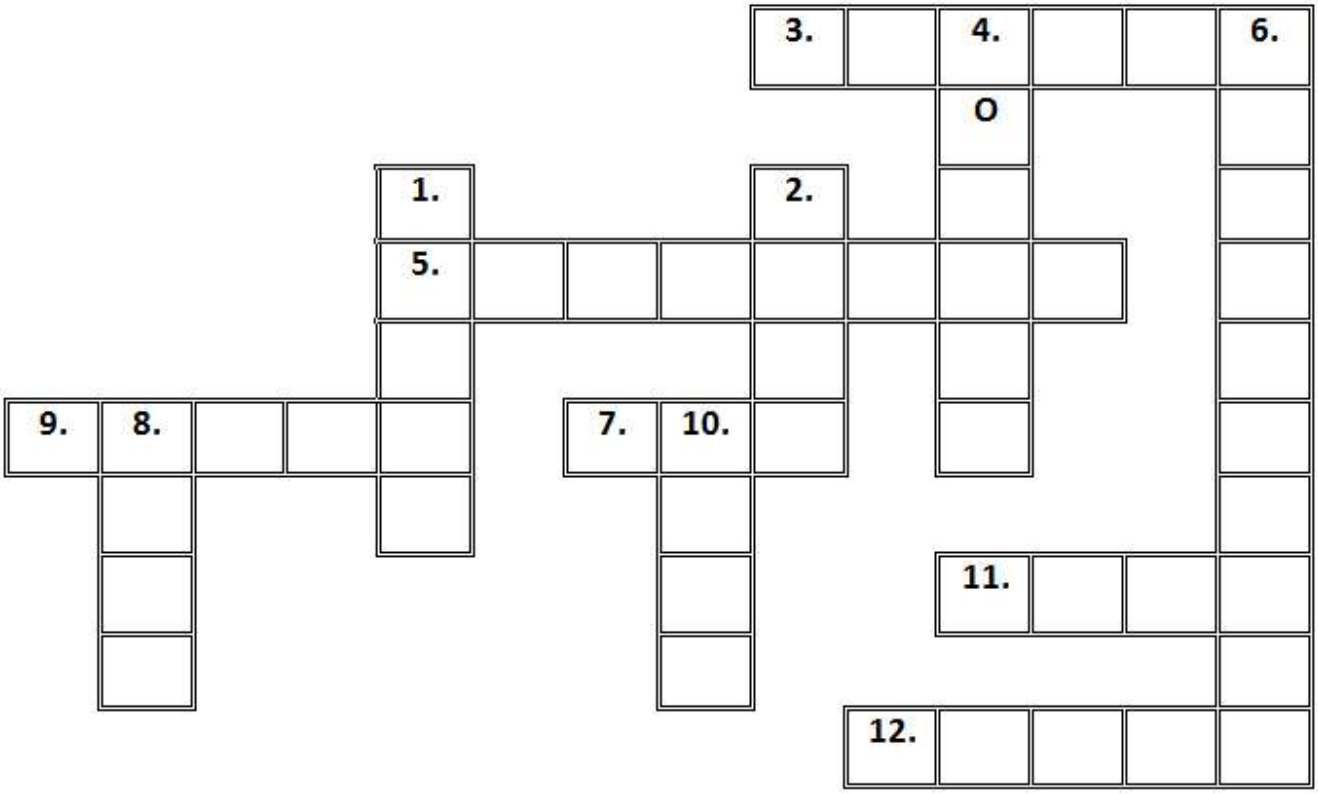
h) How many boards of length $1\frac{1}{2}$ feet can be cut from a piece of a wooden log that measures $22\frac{1}{2}$ feet in length ?

3)(i) **Solve the following crossword puzzles :**



Across	**Down**
1) 1 is the multiplicative _____ for integers. 4)_____ property of addition states that a + (b +c)= (a + b) + c for integers a, b and c . 5) All natural numbers ,zero and negatives of natural numbers . 8) _____ property of multiplication states that $a \times b = b \times a$ for integers a and b. 9) Sum of two positive integers .	2) Sum of two negative integers . 3) Operation under which integers are not closed. 6) Product of a non zero integer and zero. 7) –a is the additive _____ of the integer a .

(ii)



Across	**Down**
3) $\frac{4}{5}$ and $\frac{7}{4}$ are _____ fractions . 5) $\frac{11}{5}$ is a /an _____ fraction . 7)Product of a fraction and its reciprocal . 9) Reciprocal of a unit fraction is a _____ number . 11)Fractions having same denominators. 12)Numerator of the fraction obtained by subtracting $\frac{1}{18}$ from $\frac{17}{18}$.	1)$3\frac{1}{6}$ is a _____ fraction . 2)The product of two improper fractions is _____ than each of the fractions . 4)The fraction $\frac{15}{33}$ can be written as $\frac{5}{11}$ is its _____ form . 6) Two or more fractions that represents same part of a whole . 8) Two third of three- fourth. 10)The denominator of the fraction $\frac{4}{9}$.