



John Wesley Convent, Rohtak

Summer Vacation Home Work (2021-22)

Class : VIII

Hurrah!

Break Time.....

General Instructions:

- Do your holidays homework in a very neat and tidy manner.
- Do the written work in separate notebook.
- Parents should converse most of the time in English with their wards.
- Submission date for the assignment as per subjectwise dates mentioned below:

Subject	Date of Submission
English	01.07.2021
Science & E.V.S.	02.07.2021
A&C, I.T. and G.K.	03.07.2021
Social Science	05.07.2021
Hindi & Sanskrit	06.07.2021
Maths	07.07.2021

- Do the work given in separate note book.

English

Your holiday homework this year is a fun mix of all the aspects of the language. It has been designed to ensure that you enjoy and learn at the same time.

1. Project Work :

For Roll No. 1 to 15

Instructions:

- Read one famous novel.
- Write a short summary of the story (75 words) and name the main characters.
- Choose 10 interesting adverbs from the book and find their dictionary meanings.
- Find one synonym and one antonym for all the 10 words.
- Make meaningful sentences using any 10 words.
- Present your work creatively.
- Draw a beautiful cover page.

For Roll No. 16 onwards

Taking a break from studies once in a while is very important. It freshens up our body and mind. What is your favourite indoor hobby during lock down. Prepare a magazine of that hobby by pasting pictures and also write its benefits. Draw cover page and give unique name to your magazine.

2. Revision work

Literature :

- Revise Chapter-1 (When I Failed), Chapter-2(Borda's Cat) and Chapter-3(Hafiz Mian, The Tailor)

Grammar :

- Revise Idioms, Simple, Compound and Complex Sentences, Nouns, Adjectives and Adverbs and write ten examples of each.

Writing :

- Revise and Practice Summary writing, Debate Writing, Descriptive Essay Writing.

Maths:

1. Complete your Maths notebook and practice book .
Chapter-1. Rational Numbers
Chapter-2 Linear Equations in One Variable
Chapter-3 Understanding Quadrilaterals
2. Learn tables 2-30.
3. Revise Chapter-1, 2 &3.
4. Do the given assignment based on Chapter-1,2&3.
5. Project work:
 - Make a wheel on Types of Number: Natural numbers, Whole numbers, Integers, Rational numbers (Roll Number 1-9)
 - Make a colourful chart on Types of Quadrilateral:Parallelogram and Rectangle&write their properties. (Roll Number 10-18)
 - Make a colourfulchart on Types of quadrilateral: Square and Rhombus &write their properties. (Roll Number 19-28)

Science:

1. **Revise syllabus done till date.**
Ch-Crop Production and Management
Ch-Force and Pressure
Ch-Metals and Non-metals
Ch-Synthetic fibres and Plastics
2. **Prepare a brief research report on COVID-19 virus outbreak.** You may include the following points.
 - Causal organism • Origin •Mode of Transmission • Symptoms •Treatment • Preventive measures giving DOs and DON'Ts
 At the end, pen down a write-up on "Life after COVID-19 Era". If possible, justify your research report with pictures/ diagrams.
3. **Project Work**
 1. **Activity:** To prepare a life sketch including biographical information and significant contribution of various scientists.
TOPIC: LEGENDS OF SCIENCE (Roll No. 1-10)
Instructions:-Prepare a life sketch of any one scientist in the form of BIOGRAPHY BOOKS/ LAPBOOKS.
-Use library/ encyclopedia/ online resources to undertake in-depth research.
-Book should cover the following information of the scientists:
a) Sketch/ Portrait of the Scientist,Date and Place of birth and death,Nationality,Significant Contributions to the society,Relevance / Application in day to day life, Awards,Inspirational quotes
 2. **BE THE BUDDING SCIENTISTS!** (Roll No. 11-20)
Design your own experiment and feel like a scientist.
Instructions:
Choose any topic related to Physics/ Biology/ Chemistry and design an experiment using simple things around to explain laws, principles, phenomena around us. -Prepare a working model or an activity and also a chart related to it.

3. Make a wind chime using metallic waste materials to show that metals are sonorous.

(Roll No. 21-30)

Instructions:

You may use colored strings, Coat hangers, thin strips or rods or metal nuts and bolts/ any other object that you think will produce a pleasant sound. Tie a piece of string to the objects and arrange them on the hanger. The heavier items should be towards the middle so that the wind chime is balanced. Hang your wind chime and switch on the fan to test it.

Social Science:

1. Revise:
 - a. Political Science - Chapter 1 , Indian Constitution Chapter 2, Secularism
 - b. Geography - Chapter 1, Resources Chapter 2, Land, Soil and Water
 - c. History - Chapter 1 How ,When and Where
2. Make a project file on different Religions in India.
3. Prepare a report on Covid-19 keeping the following points:
 - How it spread in India
 - Steps taken by Indian Government
 - Vaccination
 - Effects on Schools and Education
4. Prepare a chart showing Resources with pictures in different categories

Biotic	Abiotic	Renewable
Non-renewable	Potential	Actual
Localised	Ubiquitous	
5. On an outline map of India locate the States and their capital and paste in fair notebook (Atleast 5 maps)

Sanskrit:

1. उत्तर पुस्तिका में कराया गया कार्य पाठ 1 से 4 तक याद कीजिए ।
2. व्याकरण कार्य शब्द रूप अस्मद् , युष्मद्वातु रूप खाद् और इष् लट्, लृट्, लङ् लकारः संख्या वाचकः 1 से 100, सन्धि - स्वरदीर्घ सन्धिः, यण अनुवाद के नियम , अनुवाद लट्, लृट्, लङ्लकार, पत्र लेखनम - जन्मदिवस पर मत्र को निमंत्रण पत्र, निबन्ध वद्यायाः महत्त्वम् अलग उत्तर पुस्तिका में लखकर याद कीजिए ।
3. अनुक्रमांक 1 से 10 श्रीमद्भगवद्गीता से दो श्लोक A3 शीट पर अर्थ सहित लखकर याद कीजिए ।
4. अनुक्रमांक 11 से 20 सदाचार से संबंधित दो श्लोक A3 शीट पर अर्थ सहित लखकर याद कीजिए ।
5. अनुक्रमांक 21 से 30 दो सूक्तियां अर्थ सहित A3 शीट पर लखकर याद कीजिए ।

Hindi:

1. क वता- वर दे, पाठ 1, 2 व 3 अभ्यास सहित याद करें तथा उत्तर पुस्तिका पूर्ण करें।
2. एक रंगीनपोस्टर तैयार कीजिए जिसमें मनुष्य तथा देश को covid-19 के प्रभावों से बचाने के लिए कए गए सकारात्मक कार्यों को दर्शाया गया हो। (अनुक्रमांक 1 से 14) तक।
3. लॉकडाउन के चलते पर्यावरण में हुए सकारात्मक परिवर्तनों पर अपने शब्दों में एक अनुच्छेद ल खए। (अनुक्रमांक 15 से 27 तक) ।

4. संज्ञा और उसके भेदों से संबंधित फ्लैश कार्ड तैयार कीजिए। (अनु क्रमांक 1 से 14 तक) ।
5. सर्वनाम और उसके भेदोंसे संबंधित एक चार्ट **A3** शीट पर तैयार कीजिए।(अनुक्रमांक 15 से 27 तक) ।

G.K.:

1. Learn Chapters
 - 1 Goddesses & Gods
 - 2 Religion
 - 3 Ramayana
 - 4 Saints and Social Reformers
 - 5 Monarchs Prehistoric
 - 6 State Birds and animals
 - 7 Bharat at a Glance
2. Project Work / Scrap book activity / Chart
 - * Paste pictures of state Birds and Animals (Roll no. 1-8)
 - * Paste pictures of World Heritage Sites in India with their unique features. Any 15 sites (Roll no 9-16)
 - * Collect information regarding **7 Wonders of The World** and write their important features and paste their coloured pictures . (Roll no 17 onwards)
3. Activity

Cut and paste at least 2 news daily under the column and paste it in scrap book.

 - 1 National News
 - 2 International News
 - 3 Sports News
4. Prepare a documentary / PPT on the Contribution of Doctors towards the society in lockdown period of Covid -19 crisis and write few lines how their contribution motivate us towards our society as a better place to live in .

Art and Craft:

1. Draw & Colour drawing book page no. 7, 12, 43, 72&73 in your drawing file. (Use only poster colours)
2. Craft – Take handmade sheets and make a A3 size file and decorate it.

Artificial Intelligence:

1. **Roll No.1 to 15-** Prepare a PPT(5-7 slides) on **AI Based Inventions** (IBM Watson , IBM Deep Blue, Self Driven Car -Waymo, Amazon Alexa, Google Assistant, Humanoid).
2. **Roll No.16 to 30-** Prepare a PPT(5-7 slides) on **AI-Powered Smart City.** (Vehicle Tracking System, Parking System, Pollution Control System, Public Safety and Security System, Waste Management System, Health Care System).
3. **Learn** - Unit-1:Excite(Ch-1,2, 3 &4).Learn assignments of same chapters.
4. Find &write at least 10 internal Q/As from- Unit-2: Relate(Ch1&2) from each chapter in Fair Notebook.



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Summer Vacation Assignments-Maths / Class...8.... Section.....

Name: _____ Roll No.: _____ Topic : Rational Numbers

1. Fill in the Blanks

(i) The reciprocal of negative rational number is _____.

(ii) If a is reciprocal of b, the b is reciprocal of _____.

2. By what number should $-\frac{3}{4}$ be multiplied in order to produce $\frac{2}{3}$?

3. Divide the sum of $\frac{65}{12}$ and $\frac{12}{7}$ by their difference.

4. Find three rational numbers between -2 and 5.

5. Find ten rational numbers between $-\frac{2}{9}$ and $\frac{5}{9}$

6. Represent $\frac{-3}{4}$ and $\frac{1}{2}$ on same number line.

7. Simplify by using property (Suitable)

$$-\frac{5}{4} \times \left(\frac{8}{5} + \frac{16}{5} \right)$$

8. Name the Property.

$$\frac{13}{-17} \times 1 = \frac{13}{-17} = 1 \times \frac{13}{-17}$$

9. Find reciprocal of

$$(i) \frac{-3}{8} \times \frac{-7}{13} \quad (ii) \frac{3}{4} + \frac{1}{6} - \frac{1}{3}$$

10. Simplify : $\frac{3}{11} \times \frac{-5}{6} \times \left(\frac{-22}{9} \right) \times \left(\frac{-9}{5} \right)$

11. By what number should we multiply $\frac{-8}{13}$ so that the product may be 24 ?

12. Verify associative property of addition and associative property of multiplication for

$$-\frac{2}{3}, \frac{5}{4}, \frac{7}{12}$$

13. Verify commutative property of addition and commutative property of multiplication of

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

14. Simplify using appropriate properties.

$$(i) \frac{8}{9} \times \frac{4}{5} + \frac{5}{6} - \frac{9}{5} \times \frac{8}{9} \quad (ii) -\frac{2}{3} \times \frac{3}{5} + \frac{5}{2} - \frac{3}{5} \times \frac{1}{6} \quad (iii) \frac{5}{7} + \frac{2}{11} + \frac{8}{7} + \frac{6}{11}$$



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Summer Vacation Assignments-Maths / Class...⁸..... Section.....

Name: _____ Roll No.: _____ Topic : Linear Equations in one Variable

VERY SHORT ANSWER TYPE QUESTIONS

Q.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) $3x + 2 = 4(x + 7) + 9$

Q.2 Find the value of x:

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

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

c) $ax + b = 0$ where a, b are any integers

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

Q.3 Half a number increased by 10 is 12. Find the number.

Q.4 Twice the sum of two numbers is 36. If one of the numbers is 10, find the other number.

Q.5 Twenty years from now, I will be 4 times as old as my present age. What is my present age?

Q.6 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 $4(x + 5) = 24$

SHORT ANSWER TYPE QUESTIONS

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

e) $\frac{(2+x)(x-7)}{(x-5)(x+4)} = 1$

f) $\frac{9x-7}{3x+5} = \frac{3x-4}{x+6}$

LONG ANSWER TYPE QUESTIONS

Q.9 The two perpendicular sides of a right angled triangle are in the ratio 3:4 and its perimeter is 96 cm. Find the three sides.

Q.10 Two supplementary angles differ by 50° . Find measure of each angle.

Q.11 Sum of three consecutive even numbers is 36. Find the numbers.

Q.12 The numerator of a fraction is 2 less than the denominator. If 3 is added to both the numerator the fraction becomes $\frac{3}{4}$. Find the fraction.

Q.13 A number consists of two digits whose sum is 12. If 18 is added to the number, the digits are reversed. Find the number.

Q.14 Maira has a total of ₹ 1040 as currency notes in the denomination of ₹ 10, ₹ 20 and ₹ 50. The ratio of the number of ₹ 10 notes and ₹ 20 notes is 2:5. If she has a total of 30 notes, how many notes of each denomination she has.

Q.15 A number is such that ratio of 84 less than the number and difference of 108 and the number is 1:1. Find the number.

Q.16 Mr. X has to cover a certain distance. He covers $\frac{2}{5}$ of the total distance by car, $\frac{3}{10}$ by bus, $\frac{1}{5}$ by auto-rickshaw and the remaining 5km on foot. What is the total distance?



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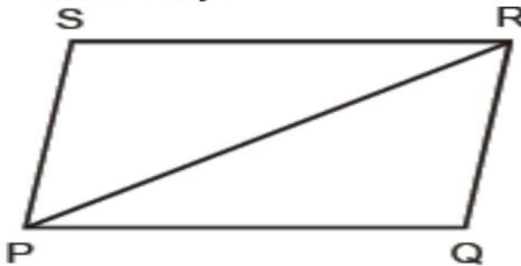
Summer Vacation Assignments-Maths / Class...8... Section.....

Name: _____ Roll No.: _____ Topic : Understanding Quadrilaterals

1. One angle of a parallelogram is of measure 70° . Find the measures of the remaining angles of the parallelogram.

2. In the given figure PR is a diagonal of the parallelogram PQRS.

(i) Is $PS = RQ$? Why?



(ii) Is $SR = PQ$? Why?

(iii) Is $PR = RP$? Why?

(iv) Is $\triangle PSR \cong \triangle RQP$? Why?

3. The perimeter of a parallelogram is 150 cm.

One of its side is greater than the other by 25 cm.

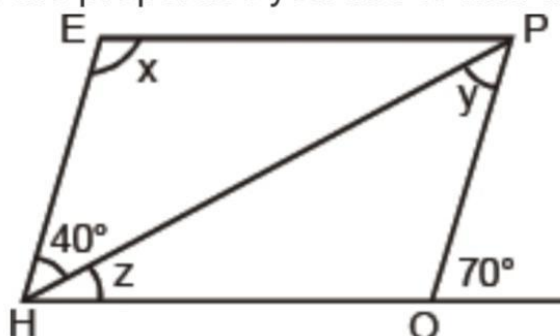
Find length of all sides of the parallelogram.

4. Lengths of adjacent sides of a parallelogram is 3 cm and 4 cm. Find its perimeter.

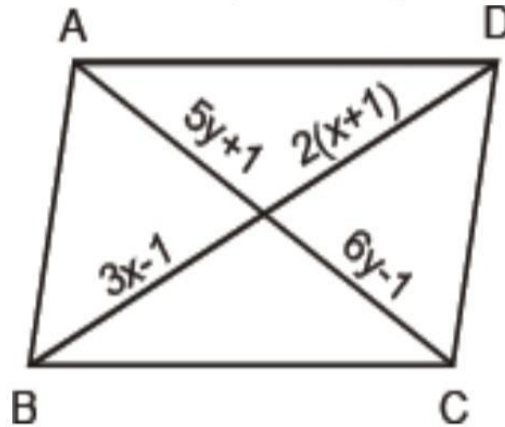
5. In a parallelogram, the ratio of the adjacent sides is 4 : 5 and its perimeter is 72 cm then, find the sides of the parallelogram.

6. The adjacent figure HOPE is a parallelogram. Find the angle measure x, y and z.

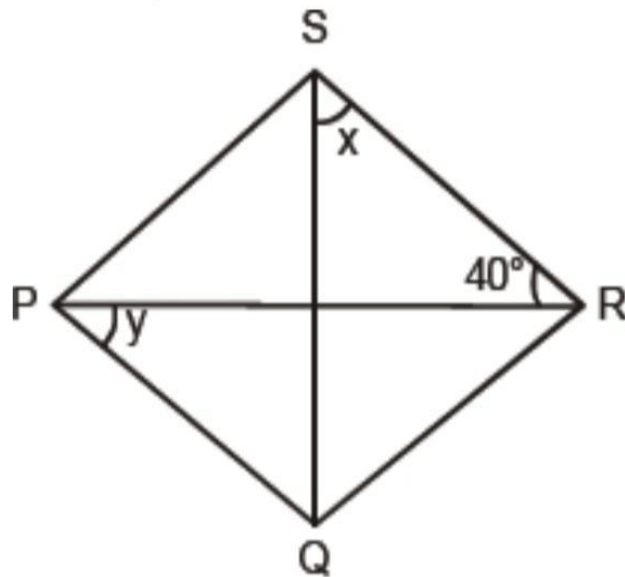
State the properties you use to find them.



7. Find value of x and y in the following figures.
 (i) where ABCD is a parallelogram.



- (ii) where PQRS is a rhombus.



8. Find x , y , z in the given parallelogram ABCD.

