



**ARMY PUBLIC SCHOOL PATIALA (2021-
2022) HOLIDAYS HOME WORK
ASSIGNMENT CLASS: VIII**

SUBJECT: MATHEMATICS

A) Solve the following questions:

1. Represent the following rational numbers on the number line

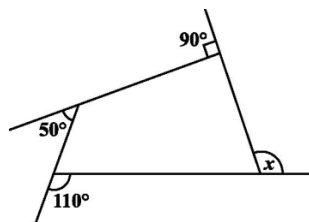
(a) $\frac{-7}{10}$ (b) $-1\frac{1}{5}$

2. Find ten rational numbers between $\frac{1}{4}$ and $\frac{1}{2}$.

3. Verify the property: $X \times (Y + Z) = X \times Y + X \times Z$ by taking

$$X = \frac{-3}{7}, Y = \frac{12}{13}, Z = \frac{-5}{6}$$

4. Find the angle measure x in the figure:



5. Simplify $\frac{x+5}{2} + \frac{x-5}{3} = \frac{25}{6}$

6. A laborer engaged for 20 days on the condition that he will receive Rs.60 for each day he works and he will be fined 25 for each day, he is absent. If he receives Rs.745 in all, for how many days he remained absent?

7. The angles of a triangle are in the ratio 2 : 3 : 4. Find the angles of the triangle.

8. A number consists of two digits whose sum is 8. If 18 is added to the number, its digits are reversed. Find the number.

9. In a rational number, the numerator is 3 less than the denominator. If the numerator becomes 3 times and the denominator is increased by 20, the new fraction is $\frac{1}{8}$. Find the original number.

10. A sum of Rs.800 is in the form of denominations of Rs.10 and Rs.20. If the total number of notes be 50, find the number of notes of each type.

11. Solve $(3x - 8)(3x + 2) - (4x - 11)(2x + 1) = (x - 3)(x + 7)$

12. The measure of angles of a hexagon are x° , $(x-5)^\circ$, $(x-5)^\circ$, $(2x-5)^\circ$, $(2x-5)^\circ$, $(2x+20)^\circ$. Find the value of 'x'.

13. Find the number of sides of a regular polygon, when each of its angles has a measure of

(i) 160° , (ii) 135° .

14. Find (i) $14 \div 9\frac{1}{5}$ (ii) $\frac{2}{5} \div 5\frac{1}{2}$

15. Find (i) $0.4 \div 2$

(ii) $0.9 \div 1000$

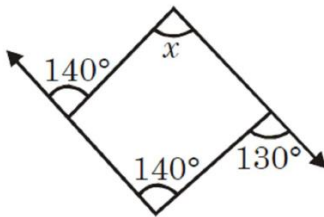
16. What number should be added to $\frac{-4}{11}$ to get $\frac{-3}{8}$?

17. Solve $\frac{6x+1}{3} + 1 = \frac{x-3}{6}$

18. Solve $\frac{3x+2}{5x+4} = \frac{3}{4}$

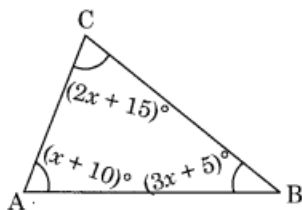
19. The five angles of a pentagon are in the ratio 5 : 6 : 7 : 8 : 10. Find all the angles.

20. In the below figure, find x



21. Is it possible to have a regular polygon with measure of each exterior angle as 580° ? Why? Can it be an interior angle of a regular polygon?

22. In the given figure, find x.



23. When one angle of a parallelogram is a right angle, then what is the name of the quadrilateral?

24. Write true and false against each of the given statements.

(a) Diagonals of a rhombus are equal.

(b) Diagonals of rectangles are equal.

(c) Kite is a parallelogram.

(d) Sum of the interior angles of a triangle is 180° .

(e) A trapezium is a parallelogram.

25. One diagonal and sides of a rhombus are of equal length. Find the measure of the angles of a rhombus.

B) Revise ch- 1, 2, 3

To verify, by paper cutting and pasting, that the sum of interior angles of a quadrilateral is 360° .

Learning Objective : To understand the angle sum property of a quadrilateral.

Pre-requisite : Knowledge of a quadrilateral and its interior angles. Idea of a complete angle.

Materials Required : A coloured sheet of paper, a plain sheet of paper, glue, a pair of scissors, a ruler and a pencil/pen.

Procedure :

Step 1. On a coloured sheet of paper, draw a quadrilateral ABCD. Name its angles as 1, 2, 3, 4. [Fig. 2(a)]

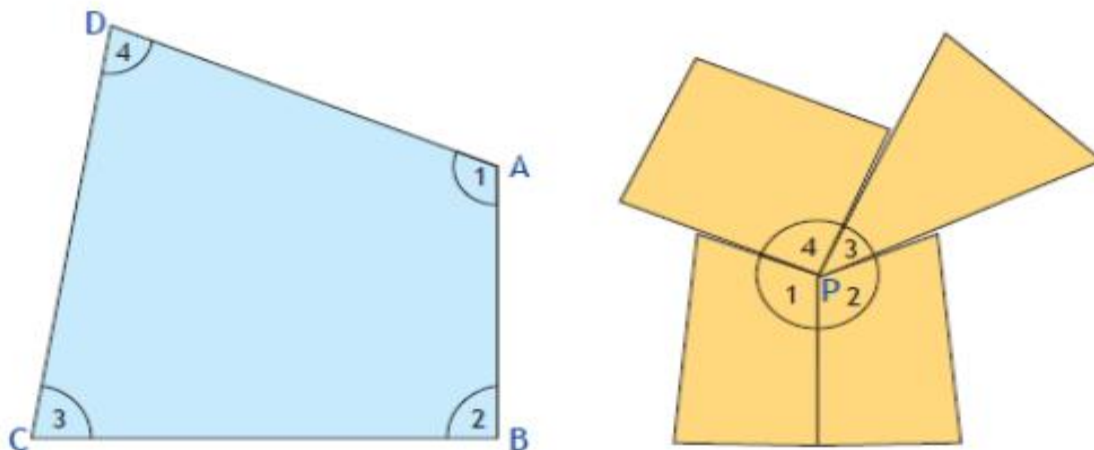
Step 2. Make the cutouts of all the four angles using a tracing paper, carbon paper and a plane sheet.

Step 3. Paste these cutouts on a sheet of paper at a point P so that there is no gap between them as shown in Fig. 2(b).

Observations :

1. All angles together forms aangle. (straight / obtuse / complete / reflex)
2. The sum of four angles of a quadrilateral is.....

Extension : Verify angle sum property for a concave quadrilateral.



SUBJECT: SCIENCE

Q1. Draw the diagrams of the following micro-organisms.

- Penicillium
- Chlamydomonas
- Bread mould
- Amoeba
- Aspergillus
- Paramecium

Q2. Define the following terms.

Crop
Agriculture
Polymerization
Pathogens
Petrochemicals
Weeding
Fermentation

INSTRUCTIONS: - Learn question answers of chapters 1,2 &3
Do HW in homework notebook only.

SUBJECT: SOCIAL SCIENCE

- **History**-Write down important dates and events related to Chapter1 (Write in your Social Science notebook)
- **Geography**-Make a poster on conservation of resources. (Paste in your Social Science notebook)
- **Civics**-Make a Poster Showing Secularism in India. (Paste it in your Social Science notebook).

● **Read and learn the following chapters.**

History - Ch-1 How, When and Where

Geography - Ch- 1 Resources

Ch- 2 Land, Soil, Water, Natural Vegetation and Wildlife

Civics - Ch-1 The Indian Constitution

Ch-2 Understanding Secularism

SUBJECT: ENGLISH

What's a Holiday without Homework?

Summer is here and with it comes your amazing holidays! But what's a holiday without some homework?

So, we've decided to give you a fun filled activity this summer!

Work Specification

A. READING ACTIVITY

Given below is a list of books. Choose any one of them (Ideally, you must choose one from each genre).

a) Summarize the story from the perspective of any one of the characters from the novel.

b) Design an attractive book cover, using your creativity, reflecting the story.

Books

Fiction -1. The Harry Potter series – JK Rowling

2. The Room on the Roof – Ruskin Bond

Autobiography- 1. The Test of My Life – Yuvraj Singh

2. Captain Cool: M S Dhoni

Thrillers - 1. Hounds of Baskervilles- Sir Arthur Conan Doyle

Short stories- 1. Collection of 22 short stories – Arvind Gupta (PDF available on internet)

2. Short stories of Rabindranath Tagore

Indian Writers - 1. The Shiva Trilogy- Amish Tripathi

2. Five Point Someone- Chetan Bhagat

3. Beastly Tales- Vikram Seth

B Bookmark

Make a beautiful bookmark for your English book. Decorate it and write a famous quotation by a well know poet or author.

C. Words 'I must know.'

Make a dictionary of your own. Find out the difficult words from the book you read and write their meanings in your own dictionary.

D. Newspaper Activity:-

Read newspaper sent by the school everyday and be up-to-date about current affairs. Solve the puzzles and keep your brain active.

E. Interview Activity

Interview your parents and grandparents to find out about the things / activities they used to do when they were your age. Tabulate the activities which no longer exist. Such as leisure time activities, games, customs practices, work done etc. (minimum 10 activities). Make it interesting. Your interview must have a lot of details for the readers to understand the yesteryears clearly.

F. Home Theatre

Movies you can watch during the summer holidays to learn some important values to improve your EQ i.e. value of relations, never give up attitude and many other values, along with your IQ. You can also make a PPT or any animated video or audio to share your views on the movie, favourite character etc.

Movies

1. School of Rock
2. The man who knew Infinity
3. Karate Kid
4. Finding Nemo
5. Bend it like Beckham
- 6.. Finding Dory
7. Malgudi Days

SUBJECT: HINDI

1. पत्र लेखन

अपने विद्यालय के प्रधानाचार्य को स्कूल छोड़ने का प्रमाण पत्र प्रदान करने हेतु प्रार्थना पत्र लिखिए।

2. अनुच्छेद लेखन

परिश्रम का महत्त्व

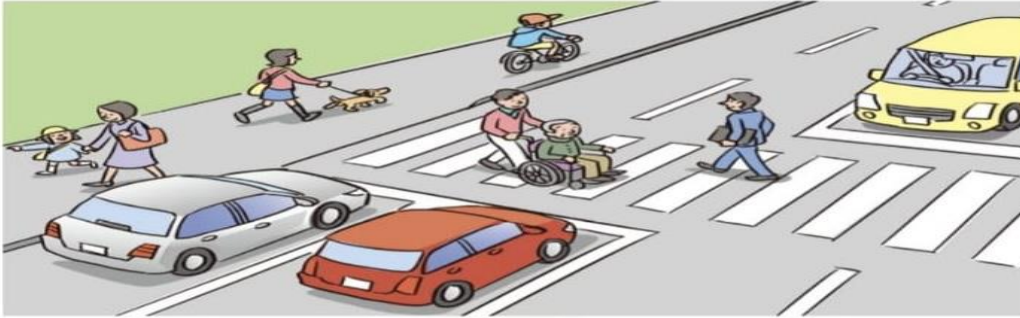
3. गतिविधि

आप अपनी किसी यात्रा के खट्टे-मीठे अनुभवों का वर्णन 60-70 शब्दों में कीजिए।

4. सुनेख

'कर भला तो हो भला' शिक्षा से संबंधित एक कहानी सुंदर शब्दों में लिखिए।

5. दिए गए चित्र का वर्णन 30-40 शब्दों में कीजिए-



नोट- सारा कार्य व्याकरण कार्य पुस्तिका में लिखिए। लेख सुंदर, साफ़ तथा स्पष्ट होना चाहिए।

SUBJECT: SANSKRIT

1. संख्यावाचक शब्द - 61-70
2. शब्दरूप – मुनि, नदी
3. धातुरूप – खाद्, गम्, लिख्, चल् (लट्, लृट् ,लोट् लकार)

नोट- * सम्पूर्ण गृहकार्य कार्य-पुस्तिका में लिखें एवं याद करें ।

* लेख साफ़, सुन्दर एवं स्पष्ट होना चाहिए।

SUBJECT: PUNJABI

ਨੋਟ:- ਛੁੱਟੀਆਂ ਦਾ ਸਾਰਾ ਕੰਮ ਆਪਣੇ ਪੰਜਾਬੀ ਦੀ ਕਾਪੀ ਵਿੱਚ ਕਰਨਾ ਹੈ।

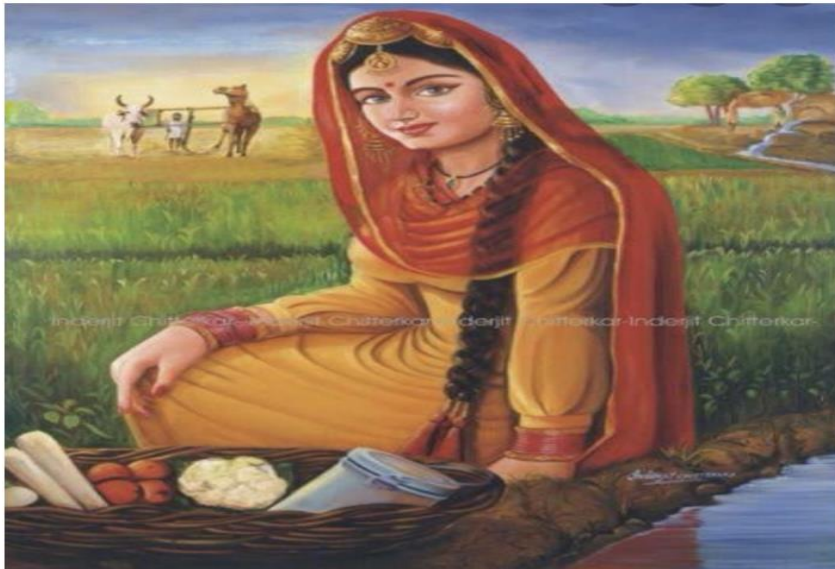
1. ਭਖਵੀਂ ਗਰਮੀ ਦੇ ਇਕ ਦਿਨ ਦਾ ਅਨੁਭਵ (ਨੁੱਕਤੇ:- ਰੂਪ ਰੇਖਾ ਜਾਂ ਜਾਣ- ਪਹਿਚਾਣ, ਸਵੇਰਸਾਰ ਦੀ ਗਰਮੀ, ਠੰਡੇ ਪਾਣੀ ਵਿੱਚ ਨਹਾਉਣਾ ਤੇ ਪੱਖੇ ਦੀ ਹਵਾ, ਦੁਪਹਿਰ ਚੜ੍ਹਨ ਨਾਲ ਗਰਮੀ ਵਿੱਚ ਤੇਜ਼ੀ, ਸਿਖਰ ਦੁਪਹਿਰ ਤੇ ਪੱਖਾ ਬੰਦ, ਸ਼ਾਮ ਦਾ ਸਮਾਂ, ਰਾਤ ਵੇਲੇ ਗਰਮੀ ਦਾ ਘਟਨਾ, ਸਾਰਸ਼ ।)

2. ਵਿਦਿਆਰਥੀ ਤੇ ਖੇਡਾਂ

(ਨੁੱਕਤੇ:- ਜਾਣ- ਪਹਿਚਾਣ ਜਾਂ ਰੂਪ ਰੇਖਾ , ਵਿਦਿਆਰਥੀ ਜੀਵਨ, ਚੰਗੀ ਸ਼ਖਸੀਅਤ ਦੀ ਉਸਾਰੀ, ਸਰੀਰਕ ਅਰੋਗਤਾ ਵਿਚ ਖੇਡਾਂ ਦੀ ਮਹੱਤਤਾ, ਮਹੱਤਵਪੂਰਨ ਗੁਣ ਪੈਦਾ ਹੋਣੇ, ਬੌਧਿਕ ਵਿਕਾਸ ਵਿਚ ਯੋਗਦਾਨ, ਪੜ੍ਹਾਈ ਤੇ ਪ੍ਰਭਾਵ, ਸਾਰਸ਼ ।)

3. ਚਿੱਤਰ ਵਰਨਣ:-

9:27 pm ✓



SUBJECT: COMPUTER

Do any one activity .

1. How can we maintain hardware? Draw diagrams or paste pictures to explain.
2. How can we take care of ourselves while working on computer? Draw diagrams or paste pictures to explain.

Note: This activity can be done on either half sheet of chart paper or in a file.

SUBJECT: ART&CRAFT

* Do the following number of pages in the ART Book.

1. Any five pages of pencil shading.
2. Any two pages of colouring
3. Any five activities given in the book (last few pages)

* Draw and colour any two landscapes in your Drawing Files