

DAV International School

Holiday Homework

Class- VIII

Session- 2019-20

**Dear Parents,
Warm greetings!**

The academic session 2019-20 has begun and is in full swing and students have settled in their classes. Now with the summer temperature soaring high, children look forward to vacation time when they can relax, visit friends and family, travel to see places and basically chill out enjoying those little pleasures of life which get left behind during the busy school routine. Summer vacation is a welcome break for children as well as parents-you don't have to watch the clock, get them to go through their morning ablutions, breakfast, lunch boxes; you all get a break from the previous night's tension of uniforms and shoes in place, homework done and all the compulsions of term-time. But you're right that one and half months spent lazing till noon in bed is not a particularly good idea and it makes that much harder to get back to the school routine. So for this purpose school has assigned some work with activities that your child will find both enjoyable and rewarding. Homework also provides you an opportunity to participate in your child's education. There are some guidelines which can aid you and your child in having a productive, enjoyable, and regret-free summer vacation.

Guidelines for Parents

- Assign small household chores like dusting of the house, cleaning wardrobes, bookrack and watering plants to make them understand the dignity of labour and maintenance of cleanliness.
- Encourage your child to eat healthy food. Avoid too much junk food.
- Encourage your child to cultivate the reading habit. So for this ask them to read newspaper every day.
- Read fairy tales and other story books of their choice.
- Converse in English with your child. Ask them to learn 5 new words in English and list them in a notebook.
- Kindly encourage your child to share use of golden words 'Sorry', 'Please', 'Excuse me' and 'Thank You' extensively with other family members/siblings.
- Take children with you to market to have firsthand experience while shopping.
- Allow your child to play outdoors and do some exercises instead of watching T.V. and playing games on mobiles.
- To improve listening and speaking skills of your child watch one story daily with him /her on you tube in English.
- **Prepare him/her for story telling competition which will be held in the last week of July.**

Guidelines for students

- Get up early in the morning.
- Meditate and do simple yoga exercises.
- Plant a tree and nurture it.
- To foster greater bonding spend time with your grandparents and help them.
- Eat healthy food and drink lots of fluids.
- Watch informational channels like National Geographic, Animal Planet and History Channel etc.



Smell the sea and feel the sky

Let your soul and spirit fly

Enjoy Vacation!

HOLIDAYS HOMEWORK

ENGLISH

SECTION - A (READING)

1. Read the passage carefully :-

1. On Buddha Purnima Buddhists refrain from eating meat and eat kheer which they share with poor. They set up stalls in public places which provide clean drinking water. Their special form of charity include kindness to animals : they buy caged birds and set them free and pay but to let go animals meant for slaughter.

2. Just as in some homes paper lanterns are hung on Diwali, on Buddha Purnima Buddhists make Vaisakh Vakats out of bamboo, festoon them with stars and decorate their houses with them. Some people also drape the walls of their homes with paper or cloth depicting incidents from the Jataka tales which are based on incarnations of the Buddha prior to his birth as Prince Gautama.

3. Different Buddhist countries have different ways of celebrating this great day. In Sri Lanka the celebrations are very similar to Diwali. All homes are brightly illuminated and even the poorest light at least one oil-lamp.

4. In Japan, Buddhists have fixed the eighth of April as the Buddha's birthday. On this day, they make replicas of shrines with spring flowers and place a small idol of the Buddha on them. They bathe and consecrate these idols with great reverence.

5. In Burma, the Buddhists set a day apart every month in honour of the Buddha. Since the Buddha attained enlightenment sitting under a Bodhi tree, special care is taken in watering and tending Bodhi trees.

6. Celebrations of Buddha Purnima have been extensively written about in poems and novels and depicted in paintings because Buddha Purnima is not only a day of rejoicing : it is also a day for reflection on the life and teachings of one of the greatest teachers the world has ever known.

1.1. Answer the following questions briefly :

(a) Give a suitable title to the passage.

(b) What are the special forms of charity? (Mention any two)

(c) How is Buddha Purnima celebrated in Sri Lanka?

(d) What are the Jataka tales based on?

(e) What do Japanese Buddhists do on Buddha Purnima?

(f) Why are Bodhi trees given special care?

1.2. Is Buddha Purnima only a day of rejoicing? Why not.

1.3. Find words from the above passage that mean the same as the following.

(a) a string or chain of flowers. (Para 2)

(b) feeling or showing great joy (Para 6)

(c) A copy or reproduction of a work of art (Para 4)

(d) Something given to help the needy. (Para 1)

2. Read the following poem carefully :

MOONLIGHT

Deep in the night

When all is still

A moon beam climbs the window-sill. Over your bed

It softly flies

To see if sleep has closed your eyes. A pinch of gold

Some fairy sand

It clasped within that moonbeam's hand. And if by chance

You're not asleep

It comes tip-toe on gentle feet. To touch your eyes

With golden beams

And take you to the land of dreams.

Ruskin Bond

Complete the summary given below by filling in the missing words in the blanks.

Note - **One word in each blank.**

During the night, rays of the (a) _____ slowly come inside your room

through the window sill over your (b) _____. It appears golden in colour

and comes to check if you are (c) _____ or not. In case you are not asleep, it Tip Toes on its feet and touches your (d) _____. Then you are taken to the world of (e) _____

SECTION - B (CREATIVE WRITING)

4. NOTICE

A Notice is a very short piece of writing usually written in formal style. It is widely used by individuals and organisations to announce events, occasions, celebrations, lost and found etc.

How to write an effective Notice?

- Name of the organisation, institution, or office issuing it.
- The word 'NOTICE'
- Date of issuing at the top left.
- A suitable description, caption or heading.
- Notice must use capital lettered details such as name of organisation, an important detail in the message itself.
- Details of Schedule (Date, Time, Venue, programme purpose/who is to attend etc.)
- Signature, Name and Designation of the person issuing the notice.
- Tone of the language must be formal.
- Usually future time references predominate over other tense forms.
- Draw the box and ensure the word limit (50 words).

NAME OF THE INSTITUTE NOTICE
DATE
HEADING/SUBJECT
In the space, write the content of the notice-what, where, when, why, special instructions, contact etc.
SIGNATURE
NAME IN BLOCK LETTERS (DESIGNATION)

You are Rewa / Rohit, Secretary of the Adventure Club of S.P. Model School, Chandigarh. Draft a notice in about 50 words for the school notice board announcing a five day trekking expedition organised by Apex-Adventures Innerline Treks and Travels. Include all necessary details.

5. E-MAIL

E-MAIL is a short piece of writing used to convey formal or informal messages electronically.

How to write an E-mail?

When you are in the process of writing an e-mail message, you have to deal with several parts of message like:-

- 1 From: Write your e-mail address in this section.
- 2 To: E-mail address of the person who you are writing to.
- 3 Subject: A very short content of your message is written here.
- 4 Signature: This is the identification that the sender provides at the end.

From:
To:
Subject:
Salutation
In this space, write the message you want to convey in about 80-100 words
Signature

Your Cousin Amit has successfully gained admission in the IIT Delhi. Send an e-mail to him congratulating him on his success. You are Monika / Mohit.

6.SPEECH

Speech Writing is an art of conveying a message to your audience.

How to write a speech?

➤ INTRODUCTION

- A dramatic note to draw the attention of the audience .
- Brief salutation
- Greet the chief guest,principal,teachers and fellow friends.
- Announcement of the topic.

➤ DEVELOPMENT OF THE TOPIC

- Spell out various aspects and motives of the topic.
- Give positive and negative points.
- Give effects/results/consequences.
- Arguments for and against the topic .
- Briefly sum up all the points.

➤ CONCLUSION

- Conclude with a hope,warning,appeal or call for an action.
- Do not forget to say 'Thank You'.

You are representing your school in an Inter- School Speech Competition on the topic - 'Generation Gap is Destroying Family Life'. Write the speech in not more than 150 words, using ideas from the unit "Changing Times" of "My English Reader".

Present your own views too.

OR

You are Harlin / Harry a student of Class VIII. You consider Sh. A.P.J. Abdul Kalam, former president of India as your role model and have been greatly impressed by his books. You decide to prepare a speech to be delivered in the morning assembly of your school on the topic 'Role Model can influence lives' highlighting the importance of having a role model in our lives. Write the speech in about 150 words. (Take hints from the unit "Compassionate Souls". of My English Reader and also present your own views).

7.INFORMAL LETTER

Informal or personal letters are usually those letters that we write to our family members,close relatives and friends.

How to write an Informal letter?

1.HEADING:Sender's Address is written here.Never include your name before address.

2.DATE:It appears directly below the address,after leaving some space.

3.SALUTATION:Write salutation here.Never use Dear Friend.Always use a name for a friend and name is not given,use ABC etc.

4.BODY:This space is for the Body of the letter.It contains all the information or news the sender wants to convey.Use a different paragraph for each new idea.The division between paragraphs is marked by one line of space.In closing use leave taking expressions.

5.SUBSCRIPTION:Give a complimentary close.

6.NAME OF THE SENDER

FORMAT

Sender's Address

Date

Salutation

-----Content(120-150 words)-----

Yours lovingly

Name of the sender

You are on a holiday, visiting your cousin in Delhi. Write a letter to your friend describing and sharing your experience of a day's outing. You may use the given hints along with your new. Visiting heritage sights, monuments, malls, Places of religious interest, gardens, food courts, zoo, museum and art galleries etc.

SECTION - C (GRAMMAR)

8. Read the following notes in the box below.

Using the information given in the notes complete the paragraph.

CHARLIE CHAPLIN

1889 : Born on April 16, a south London Slum

1914 : Reaches Hollywood, achieves great fame in silent films.

1920 : Sound comes in films, already made career in silent films.

1931-40 : Popular films - 'City Lights', 'Modern Times', 'The Great Dictator' very popular.

1951 : Leaves the USA for Europe.

1975 : Splendid Contribution in Cinematic art - Knighted by Queen Elizabeth.

1977 : Settles in Switzerland.

Charlie Chaplin (a) _____ on 16th April, 1889 in a South London Slum. In 1914, he reached Hollywood where he (b) _____ as an actor. By the time sound came in films in 1920, Chaplin (c) _____ his career in silent films. In the next 10 years, many of his films like 'City Lights', 'Modern Times', 'The Great Dictator' (d) _____. In 1951 he (e) _____ for Europe. At the age of 86, he was knighted by Queen Elizabeth for his splendid contribution to cinematic art. He finally (f) _____ in 1977.

9. The following passage has not been edited. There is an error in each line. Write the incorrect word and the correction in your answer sheet against the correct blank number :

incorrect correct

A metaphor is a figure to speech in (a) _____ which the implied comparison is (b) _____ made among two unlike things (c) _____ that actually has something important (d) _____ in common. A word metaphor (e) _____ comes from a Greek word meant to transfer or carry a cross (f) _____ Metaphors carry meaning from one word, image or idea to another.

10. Rearrange the following words and phrases to form a meaningful sentences. Write your answers neatly .

The first one has been done as an example.

Eg. Ivan Dmitritch / a / was / man / middle class

Ivan Dmitritch was a middle class man.

(i) with his family / he / twelve hundred / lived / an income / of / on / a year.

(ii) he / but / satisfied / very well / was / with his lot.

(iii) on the sofa / he / after supper / began / sat down / and / the newspaper / reading.

11. Read the following conversation between Yash and Karan then complete the paragraph by using the correct option in the given blanks.

Yash : Karan, where are you going?

Karan : I am going to see a patient in a hospital.

Yash : How much time will you take?

Karan : I will be back within an hour.

Yash asked Karan where he was going? Karan replied that (a) _____. Yash

asked (b) _____. Karan then replied that (c) _____.

(a)(i) he would go to see a patient in a hospital.

(ii) I am going to see a patient in a hospital.

(iii) he is going to see a patient in a hospital

(iv) he was going to see a patient in a hospital

(b) (i) how much time will you take?

(ii) how much time he will take?

(iii) how much time he would take?

(iv) how much time will he take?

(c) (i) he would be back within an hour

(ii) he will be back within an hour

(iii) I would be back within an hour.

(iv) he would be back within a hour.

12. Fill in the gaps by choosing the correct options from the given in brackets.

Cinema is one (a) _____ (of / for / from) the most significant phenomenon

(b) (of / in / by) our time. It is the most potent and versatile art form. It developed

(c) _____ (with / by / from) photography and theatre (d) _____ (to / at / from) its present stage. It commands respect as it combines various forms

(e) _____ (of / from / to) art. It is a source of recreation and a medium

(f) _____ (of / for / to) commercial advertisements and political propaganda.

Literature

Extra Questions

Ch 1: Three Questions

Q1) What proclamation did the king make throughout the kingdom and why?

Q2) Describe Hermit's life?

Q3) Why did the king disguise himself on visiting the Hermit?

Q4) How did the Hermit respond to the king's questions initially?

Q5) Why did the king sleep at the threshold of Hermit's cell?

Ch2 :Granny's Tree Climbing

Q1) Why was Granny called a genius in the poem?

Q2) How did Granny feel in her bed?

Q3) How did Granny react to the family's suggestion of growing old gracefully?

Q4) How did Granny work out the problem of not being able to climb down the trees?

Q5) What role did 'I' (the poet) play in making Granny's life comfortable?

Ch 3: The Fun They Had

Q1) What was so exciting about finding the book?

Q2) What were the most interesting features of Tommy's book?

Q3) Which school did Margie like more? Write reasons to support your answer.

Q4) What was so wrong with Margie's mechanical teacher? Who set it right?

Q5) Why couldn't Margie concentrate on her Arithmetic lesson?

Ch 4: Father's Help

- Q1) What was Swami's dilemma?
- Q2) When father ignored Swami's excuse of a headache , what other plea did he put forward?
- Q3) Whom did father ask Swami to deliver the letter?
- Q4) What was Swami's state of mind on his way to school?
- Q5) What did Swami hope when he got up on Monday morning?

CH 5 : My Mother

- Q1) What did the poet remember about his life during the war days?
- Q2) Which child got the maximum attention from the mother and why?
- Q3) Where does the poet hope to meet his mother ? How will he meet her?
- Q4) How did the struggle of childhood affect the narrator's life in the long run?
- Q5) Is poet's mother alive or dead? Cite a textual evidence in support of your answer.

VALUE BASED QUESTIONS:

- Q1) Discuss the importance of present moment in one's life.
- Q2) Is it good to be a fun loving person ? Describe with reference to 'Granny 's Tree Climbing'.
- Q3) What is that you like the most about your teacher?
- Q4) There is no one on earth who loves us like our mother. How should we treat this God on Earth?

HOTS

- Q1) Do you agree with Margie's preference of a human teacher ? Explain.
- Q2) Lack of money was not a bar to study in APJ Abdul Kalam's life . How important is money in your life and with what spirit do you study?
- Q3) Forgiveness is a great virtue. Discuss.(Three Questions)
- Q4) Swami pretended to have a headache and when forced by father to go to school, he changed his tactics by putting false allegations on his teacher Samuel. Is it right to befool your parents and put blame on others? Discuss.

WRITING SKILLS

- As Margie, you are really upset with your mechanical teacher. Write a letter to your mother requesting her to arrange a human teacher for you.
- Imagine yourself to be the wounded man who has come to know that the king is a good man. For this reason, you feel guilty about your bad attitude. Write a diary Entry expressing your feelings.

Read chapter ' THE LUNCHEON' and frame five extra questions.

MATHS

(Do your holiday homework on an assignment copy)

ASSIGNMENT SHEET

1. Evaluate

i) $\sqrt{8 + \sqrt{274 + \sqrt{213 + \sqrt{144}}}}$ ii) $\sqrt{176 + \sqrt{2401}}$

iii) $\sqrt{98} \times \sqrt{162}$ (iv) $\sqrt{72} \times \sqrt{338}$ v) $\frac{\sqrt{1183}}{\sqrt{2023}}$

2. Find the square root of the following correct to three places of decimal.

i) $3\frac{3}{5}$ (ii) $4\frac{1}{5}$ (iii) 3.2 (iv) 7

3. The area of square field is $80\frac{244}{729}\text{m}^2$. Find the length of each side of the field.

4. A decimal fraction is multiplied by itself. If the product is 251953.8025, find the fraction.

5. Find the value of $\sqrt{4225}$ Using this find the value of $\sqrt{42.25} + \sqrt{0.4225}$

6. Find the least number which must be added to 306452 to make it a perfect square. Also find the square root of the resulting number.

7. Find the greatest number of 5 digit which is a perfect square.

8. Area of a rectangular field whose length is twice its breadth is 2450m^2 . Find the area of square field, whose perimeter is equal to the perimeter of the rectangular field.

9. Find the square roots of 2304 and 1764 and hence find the value of:

$$\frac{\sqrt{0.2304} + \sqrt{0.1764}}{\sqrt{0.2304} - \sqrt{0.1764}}$$

10. Find the smallest square number divisible by each one of the numbers 8,9 and 10.

11. The area of a square field is 60025m^2 . A man cycles along its boundary at 5m/s. In how much time will he return to the starting point?.

12. Simplify $\frac{\sqrt{32} + \sqrt{50} + \sqrt{72}}{\sqrt{18} + \sqrt{98}}$

CHAPTER : CUBES AND CUBE ROOTS

1. Find the smallest number which when multiplied with 137592 will make the product a perfect cube.

Further, find the cube root of the product.

2. Divide the number 26244 by the smallest number so that the quotient is a perfect cube. Also find the cube root of the quotient.

3. Evaluate: (i) $\sqrt[3]{1372} \times \sqrt[3]{1458}$ (ii) $\sqrt[3]{140} \times \sqrt[3]{2450}$ (iii) $\sqrt[3]{\frac{686}{-3456}}$

(iv) $\sqrt[3]{700 \times 2 \times 49 \times 5}$

(v) $\sqrt[3]{96} \times \sqrt[3]{144}$

4. Find the cube root of the following rational number:-

i) 0.001728 ii) 0.003375

5. If $x^3 = 2197$, find the value of $2x$

6. Evaluate: i) $\frac{\sqrt[3]{1.728}}{\sqrt[3]{2.744}} + \frac{1}{\sqrt[3]{343}}$

ii) $\sqrt[3]{27} + \sqrt[3]{0.008} + \sqrt[3]{0.000064}$

iii) $\sqrt[3]{\frac{0.008}{0.027}} \div \sqrt[3]{\frac{729}{512}} \times \frac{27}{16}$

7. Find the cube root of 175616 and use it to find the value of $\sqrt[3]{175.616} + \sqrt[3]{0.175616}$

8. If $\sqrt[3]{-\frac{(0.512)}{x}} = \sqrt[3]{1000000}$, then find the value of x .

9. Difference of two numbers, which are perfect cubes, is 189. If the cube root of the smaller of the two numbers is 3, find the cube root of the larger number.

10. The volume of a cubical box is 474.552 m^3 . Find the length of each side of the box.

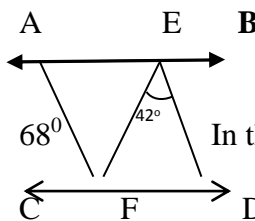
11. Three numbers are in the ratio 2:3:4. The sum of their cubes is 0.334125. Find the numbers.

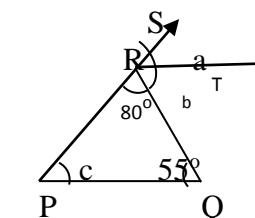
12. Find the cube roots of the following numbers by estimation method:

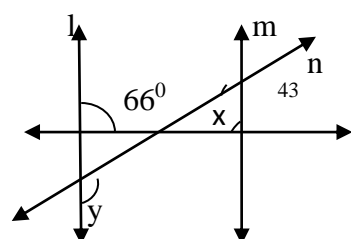
i) 226981 ii) 571787 iii) 32768

13. Find the volume of a cube whose surface area is 384m^2 .

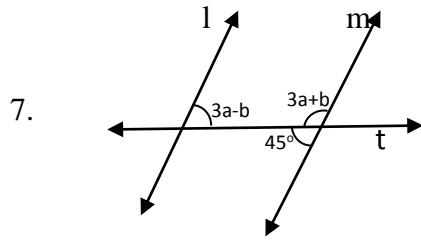
CHAPTER : PARALLEL LINES

1.  In the given figure, $AB \parallel CD$, $\angle AFC = 68^\circ$ and $\angle FED = 42^\circ$ Find $\angle EFD$.

2.  In the given figure $PQ \parallel RT$. Find the values of a , b and c .

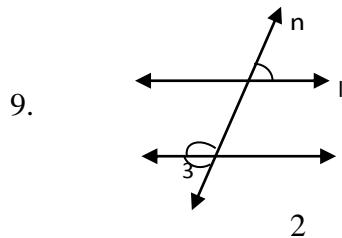
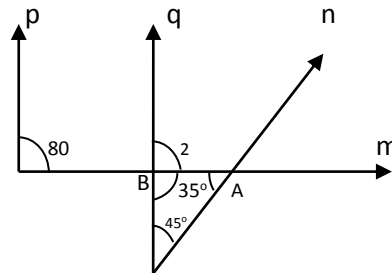
3.  In the given figure, two parallel lines l and m are intersected by two transversals n and p . Find the values of x and y .

4. Draw a line segment $AB = 6$ Cm. Find a point P on it such that $AP = \frac{2}{5}PB$.
5. Draw a line segment $AB = 7.6$ Cm. Find a point P on it such that $AP = \frac{2}{7}AB$.
6. Draw a line segment $AB = 7$ Cm and divide it internally into 5 equal parts.



In the given figure, $l \parallel m$. Find the value of a and b.

8. In the given figure, find the value of $\angle 1$ and $\angle 2$. Also prove that $P \parallel q$.



In the given figure, $l \parallel m$ and n is a transversal. If $\angle 1 = (5x+25)^\circ$ and $\angle 2 = (15x-35)^\circ$ then find the value of x and hence find the measure of $\angle 3$.

10. Draw a line segment $AB = 9.6$ cm. without constructing parallel lines mark three points P, Q, R on it such that $AP=PQ=QR=RB$.

CHAPTER : ALGEBRAIC IDENTITIES

1. Evaluate the following by using suitable identity :-
 - a. $(703)^2$
 - b. $(999)^2$
 - c. 9.8×10.2
 - d. $198 \times 198 - 102 \times 102$
2. Find the following by using suitable identity :-
 - a. $(-2a - b + 5c)^2$
 - b. $(3x^2 - 4xy)(3x^2 + 3xy)$
 - c. $(p^2 - 16)(p^2 - 1/4)$
3. Evaluate the following by using suitable identity :-
 - a. 102×98
 - b. 34×36
 - c. 103×96
 - d. 78×83
4. Factorize the following :-
 - a. $16x^4 - 81$
 - b. $y^2 + 5y - 36$
 - c. $a^{12}x^4 - a^4x^{12}$
 - d. $(a+7)(a-10) + 16$
 - e. $4x^2 - 4xy + y^2 - 9z^2$
 - f. $x^2 + 9y^2 - 6xy - 25a^2$
 - g. $x^2 + 12x - 45$
 - h. $p^2 - 3pq + 2q^2$
 - i. $a^2 + b^2/4 + c^2/9 + ab + bc/3 + 2ca/3$
5. If $x - \frac{1}{x} = 5$, find the value of $x + \frac{1}{x}$

6. If $a + b + c = 12$ and $a^2 + b^2 + c^2 = 66$, find the value of $ab + bc + ca$
7. If $3x + 4y = 7$ and $xy = 2$, then find the value of $9x^2 + 16y^2$.
8. Simplify the following :-
 - a. $(7x + 4y)^2 - (7x - 5y + 3)^2$ b. $(3a + 4b + 4c)^2 - (3a - 4b - 4c)^2$
 - c. $(a^2 - b^2)(a^2 + b^2) - (a^2 - b^2)^2$
9. Factorize a. $25(3x+y)^2 - 40(3x+y)(x-2y) + 16(x-2y)^2$ b. $(121x^2 - 66xy + 9y^2) - 25a^2$
10. Simplify $(a-2b)(a+2b)(a^2 + 4b^2)(a^4 + 16b^4)$
11. If $x^2 - ax + 36 = (x-4)(x-9)$ then find the value of a
12. If $(x-3)(x+b) = x^2 - 7x + 12$ then find the value of b
13. If $x + 1/x = 11$ then find the value of $x - 1/x$
14. Find the value of x, if
 - a. $25x = (536)^2 - (136)^2$
 - b. $4x = (98)^2 - (88)^2$
15. Evaluate by using suitable identity
 - a. $2.3 \times 2.3 + 2 \times 2.3 \times 4.7 + 4.7 \times 4.7$
 - b. $12.4 \times 11.6 - 95 \times 105$

ACTIVITY

Verify the algebraic identity $(a+b)^2 = a^2 + 2ab + b^2$ using geometrical interpretation on A-4 Sheet.

ANSWER KEY

SQUARE AND SQUARE ROOTS

1. (I) 5 (II) 15 (III) 126 (IV) 156 (V) $\frac{13}{17}$
2. (I) 1.897 (II) 2.049 (III) 1.789 (IV) 2.646
3. $8\frac{26}{27}$
4. 501.95
5. 65, 7.15
6. 464, 554
7. 998 56
8. 2756.25
9. 15
10. 3600
11. 196 seconds
12. $\frac{3}{2}$

CUBES AND CUBES ROOTS

1. 1183, 546
2. 36, 9
3. (I) 126 (II) 70 (III) $-\frac{7}{12}$ (IV) 70 (V) 24
4. (I) 0.12 (II) 0.15
5. 26
6. (I) 1 (II) 3.24 (III) 1
7. 56, 6.16
8. $\frac{-8}{1000}$

9. 6

10. 7.8

11. 11. (I) 0.3, 0.45, 0.6

12. (I) 61 (II) 83 (III) 32

13. 512

PARALLEL LINES

1. 70° 2. $a = 45^\circ$, $b = 55^\circ$, $c = 45^\circ$

3. $x = 114^\circ$, $y = 137^\circ$

7. $a = 30^\circ$, $b = 45^\circ$

8. $\angle 1 = 100^\circ$ $\angle 2 = 80^\circ$

9. $x = 6^\circ$, $\angle 3 = 125^\circ$

ALGEBRIC IDENTITIES

1. (a) 494209, (b) 998001 (c) 99.96 d(d) 28800

2. (a) $4a^2+b^2+25c^2+4ab-10bc-20ac$

(b) $9x^4-3x^3y-12x^2y^2$ (c) $p^4 - \frac{65}{4}p^2 + 4$

3. (a) 9996 (b) 1224 (c) 9888 (d) 6474

4. (a) $(4x^2+9)(2x+3)(2x-3)$ (b) $(y+9)(y-4)$ (c) $a^4x^4(a^4+x^4)(a^2+x^2)(a+x)(a-x)$

(d) $(a-9)(a-6)$ (e) $(2x-y+3z)(2x-y-3z)$ (f) $(x-3y+5a)(x-3y-5a)$

(g) $(x+15)(x-3)$ (h) $(p-q)(p-2q)$ (i) $(a+\frac{b}{2}+\frac{c}{3})(a+\frac{b}{2}-\frac{c}{3})$

5. $\sqrt{29}$ 6. 39 7. 1

8. (a) $126xy-42x-9y^2+30y-9$ (b) $48ab+48ac$ (c) $-2b^4 + 2a^2b^2$

9. $(11x + 13y)(11x+13y)$

10. a^8-256b^8 11. $a = 13$ 12. $b = -4$ 13. $3\sqrt{13}$

14. (a) 10752 (b) 465

15. (a) 49 (b) -9831.16

Subject - Physics

Answer the following questions

Topic Force.

Q1-When equal force is applied on a car and a loaded truck .Why the car picks up faster speed?

Q2- Name the force which is used to gather iron pins scattered on the floor.

Q3- What is meant by saying that force is due to an interaction?

Give an example to illustrate your answer.

Q4- What is electrostatic force? Give one example.

Topic Pressure\Friction

- Q1-Give reason why aircraft has pressurized cabin?
Q2- Why air from surrounding areas, tends to rush into a place which becomes hot?
Q3- How pointed nails can be inserted easily than blunt one?
Q4- Car wheels often spin on icy roads. Why?
Q5- What happens when you rub your hands vigorously for a few seconds? Why does this happen?
Q6- Differentiate between sliding force of friction and static force of friction?

HOTS

- Q1- A person is squeezing wet clothes for drying. What kind of force is applied here? Name the two objects between which interaction is involved.
Q2- How pressure of liquid increases with depth ? Illustrate your answer with diagram.
Q3- State two examples where force stops a moving object.
Q4- Brake pads of your bicycle need to be replaced quit often. Give reason.
Q5- Explain why when a person stands on a cushion, the depression is much more then he lies down?

Answer the following questions

Biology

- Q1: Why do we add phosphoric acid to carbonated beverages ?
Q2: Microorganisms are divided into four groups on the basis of their cell structure. Name these groups.
Q3: Define the following terms
- a) *Food Preservation*
 - b) *Rancidity*
 - c) *Antibiotics*
 - d) *Bio augmentation*
- Q4: How can you say that microorganisms are the foes? Support your answer giving reasons.
Q5: Enlist the two ways of administering a vaccine.
Q6: Bacteria present in the large intestine are helpful to us. How?
Q7: (a) What are vaccines?
(b) How does an infection by microorganism produce immunity against it?
(c) Name any two antibiotics
Q8: (a) State three benefits of preserving food by drying process
(b) Name any two chemical preservatives.
(c) Antibiotics should be taken only on the advice of qualified doctor. Why?
(d) State two functions of antibodies.
Q9: Explain how vacuum packing slows spoiling of nuts?
Q10: You're advised not to let mosquitoes breed in or around your home. Why?

HOTS

1. Renu has red rashes on her face, chest and back. She has moderate fever too.
 - a) Which disease she will be suffering from?
 - b) How can it be transmitted from one person to another?
 - c) Mention any two precautions to be taken for its prevention.
2. Give reasons for the following
 - a) Milk gets curdled when curd is added to it.
 - b) Vaccines are given to healthy persons.
 - c) Mangoes get spoiled, not the jams or pickle made by them.
3. You visit a doctor when you're suffering from cold, running nose and sore throat. But to your surprise the doctor didn't prescribe any antibiotics. Why?
4. Rohan saw his mother buying milk from a local milk vendor. The milk vendor was keeping the milk uncovered and selling it on the street. He advised his mother that she should only buy pasteurised milk.
 - a) Define pasteurisation.
 - b) How does pasteurisation prevent milk from being getting spoiled?
5. Microorganisms are essential part of our life. Justify the statement giving at least five reasons.

CH-SOURCES OF ENERGY, COMBUSTION

Chemistry

Answer the following questions-

Q1- Draw a flow chart which shows classification of sources of energy

Q2- Name two atmospheric factors on which formation of fossil fuels depend.

Q3- Jharkhand and Madhya Pradesh are famous for energy resources, what is special in those places?

Q4- Which product of Destructive distillation is used for extraction of metals?

Q5- Name the gas used as ingredient in the manufacture of fertilisers and chemicals.

Q6- State the principle used in fire fighting?

Q7- How combustion of fuel lead to global warming?

Q8- Answer the following-

(A) Coldest part of the flame.

(B) Zone of candle flame that is yellow in colour.

(C) Hottest zone.

(D) Two examples of spontaneous combustion.

(E) Gas release during incomplete combustion.

(F) Kindling temperature of white phosphorous.

(G) Name the gas known as supporter of combustion.

Q9- Draw a well labelled diagram of candle flame showing different zones?

Q10- Which conditions are required for combustion (any three)?

HOTS-

Q1- Why are fossil fuel exhaustible natural resources?

Q2- Enlist the resources responsible for energy crisis.

Q3- Name the fractions of petroleum used for making ointments and candle.

Q4- The material A is a fossil fuel which is extracted from the earth. It is said to be formed from the buried, large land plants by a very slow process B. When A is heated in the absence of air in the process called C, then it gives three products D, E and F. The product D is used as a reducing agent in the extraction of metals, the product E is used as an industrial fuel whereas the product F has been traditionally used for metalling the roads.

(a) What could material A be?

(b) What is (1) physical state and (2) colour, of A

(c) Name the processes (1) B, and (2) C.

(d) What are (1) D, (2) E and (3) F.

हिंदी

प्र: शाह ने ऐसा क्यों कहा कि धन्य है यह देश जिसने दारा जैसे इंसान को जन्म दिया ?

प्र: पक्षियों के क्या अरमान थे ?

प्र: पक्षियों एवं मनुष्य के जीवन में क्या भिन्नता है ? स्पष्ट कीजिए ?

प्र: पड़ोसी के प्रति लेखक अपनी उदारता का परिचय किस प्रकार देते थे ?

प्र: दारा बक्से के बिना बाहर क्यों नहीं निकलता था ?

प्र: 'दोपहरी' में किन्हें गर्मी का प्रकोप सहना पड़ा ?

प्र: सरोजिनी नायडू क्यों नाराज़ थी ?

प्र: दोपहर बीत जाने पर कोई बाहर क्यों नहीं निकलता ?

प्र: अच्छे पड़ोसी में कौन-कौन से गुण होने चाहिए ?

प्र: अल्लूरी सीताराम राजू कौन था ?

प्र: 'आश्रम के अतिथि और संस्मरण' में आए जीवन मूल्य स्पष्ट कीजिए ?

प्र: गाँधी जी कागज़ का अपव्यय किस प्रकार रोकते थे ?

प्र: अन्याय करने वाला अपराधी है तो अन्याय सहने वाला क्या कहलाता है और क्यों ?

प्र: कोया आदिवासियों का यह मानना था कि सीताराम राजू के चमत्कार से अंग्रेजों की गोलियाँ पानी बन जाएँगी । क्या ऐसा विश्वास करना उचित था ?

प्र: भ्रष्टाचार देश की उन्नति में किस प्रकार बाधक है ?

प्र: औपचारिक पत्र : पिता जी के तबादले के कारण विद्यालय छोड़ने के स्थानांतरण प्रमाण-पत्र के लिए प्रधानाचार्य को पत्र लिखिए ।

अनौपचारिक पत्र: अपने छोटे भाई को पत्र लिखकर 'इंटरनेट के प्रयोग से होने वाले लाभ और हानियाँ' पर प्रकाश डालिए, साथ ही उसे यह भी बताइए कि इसका सदुपयोग कैसे करे ॥

प्र: निम्नलिखित उपसर्ग एवं मूल शब्दों को जोड़कर नया शब्द बनाइए :

(क) अप+यश (ख) लोहा+आर (ग) प्र+दान (घ) दूर+भाग्य (ङ.) सुनार+इन
(च) उड़+ना (छ) साँप+एरा (ज) गरम+आहट

प्र: निम्नलिखित शब्दों के शुद्ध रूप लिखिए :

(क) ब्राह्मण (ख) स्वस्थ (ग) चिन्ह (घ) द्रष्टि (ङ.) मृत्रिका

प्र: निम्नलिखित शब्दों से भाववाचक संज्ञा शब्द बनाइए :

(क) बच्चा (ख) कमाना (ग) हरा (घ) नम्र (ङ.) निज
(च) दानव (छ) ईश्वर (ज) व्यक्ति

प्र: अलंकारों एवं कार्य की पुनरावृत्ति करें ।

ग्रीष्मावकाश हेतु गतिविधि / क्रियाकलाप

- अपनी पाठ्य पुस्तक में से 'बातचीत की कला' पाठ पढ़ें एवं उसे आधार बनाकर प्रस्तुत विषय पर अनुच्छेद लिखें ।
विषय : 'चुनाव प्रचार में भाषा की भूमिका'
- निम्नलिखित विषयों में से किसी एक विषय पर सूचना लेखन करें ।

- आप जगदीश नगर, नई दिल्ली के सचिव हैं । विद्युत आपूर्ति (बिजली सप्लाई) की कटौती की जानकारी देते हुए सूचना लिखिए ।
- आपका नाम प्रतिभा देवसरे है । आप अभिनव पब्लिक स्कूल, नई दिल्ली की प्रिंसिपल (प्रधानाचार्य) हैं । गरीब एवं अनाथ बच्चों के दाखिले के लिए (आयु, सुविधाएँ) बताते हुए सूचना दें ।

पंजाबी

- ਹੇਠ ਲਿਖੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ ਇਕ ਮੁਕੰਮਲ ਵਾਕ ਵਿੱਚ ਦਿਉ :
 1. ਜਿਉਂਦੇ ਰਹਿਣ ਮੇਰੇ ਦੇਸ ਦੇ ਲੋਕ' ਕਵਿਤਾ ਕਿਸ ਦੁਆਰਾ ਲਿਖੀ ਗਈ ਹੈ ?
 2. ਧਰਤੀ ਦੇ ਦੁਆਲੇ ਕੌਣ ਛਾਇਆ ਹੋਇਆ ਹੈ ?
 3. ਕਵਿਤਾ ਕਿਹੜੇ ਦੇਸ ਨਾਲ ਸੰਬੰਧਤ ਹੈ ?
 4. ਸੁਰੇਸ਼ ਪੈਸੇ ਨੂੰ ਕੀ ਸਮਝਦਾ ਸੀ ?
 5. ਸੁਰੇਸ਼ ਦੇ ਘਰ ਵਿਚ ਕਿਹੋ ਜਿਹਾ ਮਹੌਲ ਰਹਿੰਦਾ ਸੀ ?
 6. ਸੁਰੇਸ਼ ਨੂੰ ਇਨਾਮ ਦੀ ਰਕਮ ਲੈਣ ਲਈ ਕਿੱਥੇ ਜਾਣਾ ਪਿਆ ?
 7. ਡਾ: ਯਮਾਨੋ ਦਾ ਪੂਰਾ ਨਾਂ ਕੀ ਸੀ ?
 8. ਐਟਮੀ ਤਬਾਹੀ ਕਿੱਥੇ ਹੋਈ ਸੀ ?
 9. ਕਰਾਮਤੀ ਘਟਨਾ ਕਦੋਂ ਵਾਰੀ ?
 10. ਰੁੱਖ ਕਿਹੜੀ ਗੈਸ ਛੱਡਦੇ ਹਨ ?
 11. ਅਮਲ ਵਿਚ ਸ਼ੁਕੁੰਤਲਾ ਕਿਸ ਦੀ ਧੀ ਸੀ ?
 12. ਸ਼ੁਕੁੰਤਲਾ ਦੇ ਪੁੱਤਰ ਦਾ ਕੀ ਨਾਂ ਸੀ ?
 13. ਸ਼ੁਕੁੰਤਲਾ ਨਾਟਕ ਕਿਸ ਨੇ ਲਿਖਿਆ ?
 14. 'ਚਰਖੇ ਦੀ ਘੁਕ' ਤੋਂ ਕੀ ਭਾਵ ਹੈ ?

15. ਸਾਡਾ ਵਿਰਸਾ ਕਵਿਤਾ ਵਿੱਚ 'ਫੁੱਲ' ਕਿਸਨੂੰ ਕਿਹਾ ਗਿਆ ਹੈ ?

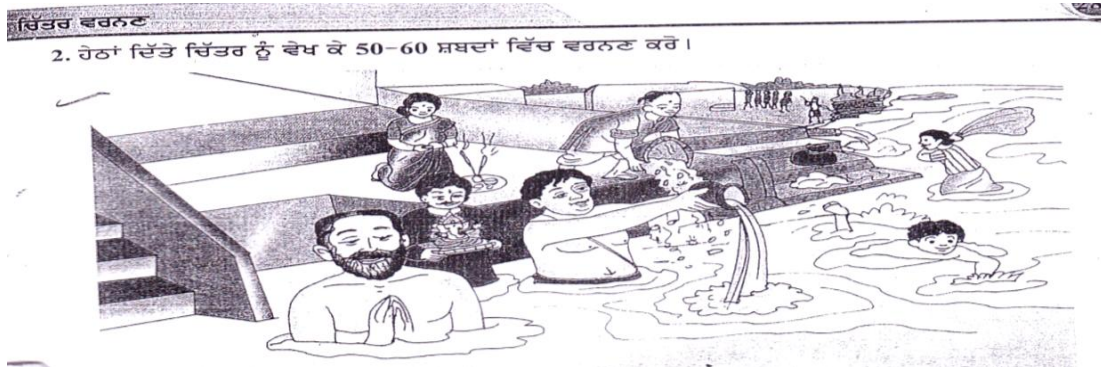
16. ਸਾਨੂੰ ਗੁੜਤੀ ਵਿਚ ਕੀ ਮਿਲਿਆ ਹੈ ?

17. ਸ਼ਬਦਾ ਦੇ ਅਰਥ ਦੱਸੋ :

(ੳ) ਸੂਇਆਂ (ਅ) ਛੰਨਾ (ੲ) ਧੂ ਪਾਉਣੀ (ਸ) ਜਨੌਰ (ਹ) ਜਾਨਾ ਝੋਕ ਦੇਣਾ

ਵਿਆਕਰਨ :

- ਮੁਹਾਵਰੇ (1-40) ਯਾਦ ਕਰਨੇ ।
- ਲਿੰਗ (ਸਾਰੇ) ਯਾਦ ਕਰਨੇ ।
- ਲੇਖ : ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ ਯਾਦ ਕਰਨਾ
- ਹੇਠਾ ਦਿੱਤੇ ਚਿੱਤਰ ਨੂੰ ਵੇਖ ਕੇ ਚਿੱਤਰ ਵਰਣਨ ਕਰੋ :



ਪ੍ਰੋਜੈਕਟ : ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਦੇ ਵਿਰਸੇ ਨੂੰ ਦਰਸਾਉਂਦਾ ਇੱਕ ਕਲਾਜ ਬਣਾਓ ਜਿਸ ਵਿੱਚ ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਦੀ ਝਲਕ ਦਿਸਦੀ ਹੋਵੇ ?

SUBJECT- SOCIAL SCIENCE

GEOGRAPHY:- Make a project on the hazards and environmental impact of mining in the coalfields especially in the state of Jharkhand.

History:- Make a pictorial brochure on any social reformer/ freedom fighter of India. Write few lines also

Civics:- make a pictorial Charter on the life of tribals of India and write about hardships they had to undergo.

Do any one of above three

Sections A,C,E,G,H will do only social science project

Answer the following questions

- India is federal in structure but unitary in spirit .Discuss
- Enlist Fundamental rights given in our constitution.
- How is Right to Constitutional remedies _the guardian of our Constitution?
- Define Preamble. discuss its features.
- What purpose are served by Indian Constitution?
- Explain importance of wildlife.?
- Discuss factors affecting agriculture.
- Differentiate between Intensive and extensive agriculture
- Explain tropical evergreen and Mediterranean forest
- Discuss resources on the basis of development of resources.
- Discuss first Anglo Sikh War.
- Differentiate between Zamindari and Mahalwari system.

- What were the causes of revolts by farmers?
- Which War led to an end of French power in India and how?
- How could a trading company become an imperial power?

PLEASE NOTE:-

- **Homework of all subjects to be done in respective Class work copies.**
- **Summer vacation for Pre-Nursery to class III is from May 31,2019 to July 7,2019**
 - ❖ **Summer vacation for IV to class VII is from June 1, 2019 to July 7,2019**
 - ❖ **School will reopen on July 8 , 2019 as per routine school time i.e – 8.00 am – 2.00 pm**
- **Summer vacation for VIII is from June 1 ,2019 to July 2 ,2019**
 - ❖ **School will reopen on July 3, 2019 as per routine school time i.e – 8.00 am – 2.00 pm**