



ओ३म्
DAV PUBLIC SCHOOL SAMANA
(SENIOR SECONDARY)
CBSE AFFILIATED-1630571



SESSION: 2021-22

SUMMER ASSIGNMENT

CLASS : X



"The holiday season is a perfect time to reflect on blessings and take out ways to make life better for those around us".



CIRCULAR FOR SUMMER VACATION

Respected Parents

Namaskar / Sat Shri Akal

Summer Vacation is the most awaited time for parents and kids alike. **This Year, Summer Vacation is scheduled from 8th June, 2021 to 23rd June, 2021 for Classes LKG, UKG, 1st to 10th & 12th. Virtual Classes will be resumed on 24th June, 2021 (Thursday).** However, this time it is different due to COVID-19 as youngsters are already not going to school. Thus, our responsibilities get double to keep our children active.

We, at DAV Samana, understand it very well that presently our proximity to resources is limited. Considering this, we have tried to keep "Summer Holidays Assignment" simple and creative, so that our DAVians would love to spend their time in completing it.

The objective of holidays homework is to enable our students work independently and also to improve their academic skills.

During Holidays:-

- ▶ Make sure that you are spending quality time with your ward amidst this tensed environment. It is very important to keep their anxiety at minimum.
- ▶ Giving them small responsibilities in household chores will aid them to be independent.
- ▶ Be observant while your ward watches TV and using Mobile Phone or Internet.
- ▶ Motivate your ward to read good books because it not only enhances knowledge but also develops the vocabulary and communication skills.
- ▶ Keeping in view the prevailing situation indulge yourself in various indoor games with them.

Above mentioned routine will help a child to become a Smart & an Active learner.

We cannot over look the fact that the Summer Holidays are the time to relax and revive. While the entire world is struggling hard in recovering from the pandemic COVID-19, we together will have to make it sure that our youth is least effected from the panic around.

So, make these holidays memorable for them by providing a nurtured and stimulated environment at home which is full of fun, excitement, and learning.

Dr Meena Mehta

Principal

General Instructions for the Students:

- Revise syllabus covered so far, of all the subjects, thoroughly.
- Complete each and every subject notebook work for the **Notebook Assessment** during/after the summer break.
- An Assignment of Mathematics is given along with revision of contents. The student should do all the questions of the assignment in Mathematics fair Notebook which will also be assessed during Notebook Assessment.

Note : The Notebook of the Child will be assessed as per following parameters:

- ✚ **In Time Submission**
- ✚ **Student's Biodata**
- ✚ **Handwriting**
- ✚ **Index**
- ✚ **Covering of Notebook**
- ✚ **Completion of Work**

- Complete the given activity work in a very neat and presentable manner according to the work assigned to particular Roll Numbers.
- The Schedule for Submission of work will be shared soon in groups (Official WhatsApp). Late Submission will not be accepted.

Note : The School office/ FEE Counter will remain open all the working days in holidays till 9:00 am to 2:00 pm.

Contact Details:

| Name & Designation | Classes | Contact |
|-------------------------------|----------------------|----------------|
| Ms. Rishu Ghai (PRT) | LKG-Class II | 97809-07117 |
| Ms. Maneesha Bansal (PRT) | Class III -Class V | 99151-10783 |
| Ms. Reeta Bhardwaj (TGT) | Class VI -Class VIII | 79869-15521 |
| Ms. Vidushi Sood (PRT) | Class IX-Class XII | 87280-48000 |

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MATHEMATICS ASSIGNMENT



1. Sum of two irrational numbers is a irrational number.(True / False)
2. Without actually performing the long division, state $\frac{77}{210}$ will have a terminating decimal expansion Or non terminating repeating decimal expansion.
3. Find the HCF of 96, 384 and 404 by prime factorization method.
4. Prove that $6 + \sqrt{3}$ is irrational.
5. Use Euclid's division algorithm to find HCF of 196 and 38220.
6. Use Euclid's division lemma to show that the cube of any positive integer is of the form $9m$, $9m + 1$ or $9m + 8$.
7. Find LCM and HCF of the 510 and 92 and verify that $LCM \times HCF =$ product of the two numbers.
8. If $p(x) = 2 - 3x + 5$, then find $p(-1)$.
9. If $(x + a)$ is a factor of $2 + 2ax + 5x + 10$, find a .
10. Find a quadratic polynomial, the sum and product of whose zeroes are -3 and 2 , respectively.
11. Divide $2x^2 + 3x + 1$ by $x + 2$. Write quotient.
12. Find the zeroes of the $4s^2 - 4s + 1$ and verify the relationship between the zeroes and the coefficients.
13. Find all the zeroes of $2x^4 + 3x^3 + 3x^2 + 6x - 2$, if you know that two of its zeroes are $\sqrt{2}$ and $-\sqrt{2}$.
14. On dividing $x^3 - 3x^2 + x + 2$ by polynomial $g(x)$, the quotient and remainder were $x - 2$ and $-2x + 4$, respectively. Find $g(x)$
15. The altitude of a right triangle is 7 cm less than its base. If the hypotenuse is 13 cm, find the other two sides.
16. Find two consecutive odd positive integers, sum of whose squares is 290.
17. Is it possible to design a rectangular park of perimeter 80 m and area 400 m^2 ? If so, find its length and breadth.
18. Find the roots of $x - \frac{1}{x} = 3$, $x \neq 0$
19. Sum of the area of two squares is 468 m^2 . If the difference of their perimeters is 24 m, find the sides of the two squares.
20. A train travels 360 km at a uniform speed. If the speed had been 5km/hr more, it would have taken 1 hour less for the same journey. Find the speed of the train.



LEARNING WITH FUN

Prepare One Poster (Chart or Ivory sheet) on following:-

| TOPIC | ROLL No. |
|------------------------------------------|-----------------|
| School Houses Information | 1-5 |
| National Education Policy 2020 | 6-10 |
| Good Thoughts | 11-15 |
| DAV Organisation | 16-20 |
| Collaboration of Punjab & Andhra Pradesh | 21-25 |
| Biology -Latest Inventions/ Facts | 26-30 |
| Chemistry- Latest Inventions/ Facts | 31-35 |
| Physics- Latest Inventions/ Facts | 36-40 |
| Frills for Display Board | 41-50 |

Stay SAFE @ HOME.
ENJOY the QUALITY TIME during HOLIDAYS.



STOP CORONAVIRUS SPREAD

PREVENTION FROM COVID-19



WEAR MASK



WASH HANDS



USE HAND SANITIZER



MAINTAIN SOCIAL
DISTANCE

