

PM SHRI KENDRIYA VIDYALAYA KEYLONG

HOLIDAY HOMEWORK

1) Mathematics (Class 7TH)

15 October to 24 October 2026

Name: _____ Section: _____ Roll No.: _____

Instructions: Attempt 4 questions each day. Question 1 is a basics question to strengthen your foundation; read the Remember line first. Write neatly in a notebook, show all steps, and use a ruler and pencil for figures.

Day 1: Thursday, 15 October

Integers

Remember: Same signs: add and keep the sign. Different signs: subtract and keep the sign of the larger. Negative $\times$ negative = positive.

- Q1. **Basics:** Do mentally: $(-8) + (-3)$, $6 - (-9)$, $(-4) \times (-5)$, $(-36) \div 4$.
- Q2. **Evaluate:** $(-15) \div (-3) \times 4 - 7$.
- Q3. **Subtract** -9 from 4 , and subtract 5 from -12 .
- Q4. The temperature at noon is 5°C and falls by 3°C every hour. What is the temperature after 6 hours?

Day 2: Friday, 16 October

Fractions and Decimals

Remember: To divide by a fraction, multiply by its reciprocal.

- Q1. **Basics:** Find the LCM of 12 and 18 and the HCF of 24 and 36.
- Q2. **Simplify:** $2/3 + 3/5 - 1/2$.
- Q3. Find: $2\frac{1}{2} \times 1\frac{3}{5}$ and $3/4 \div 9/16$.
- Q4. Find: 4.5×0.2 and $7.2 \div 0.06$, and convert $3/8$ into a decimal.

Day 3: Saturday, 17 October

Simple Equations

Remember: Whatever you do to one side of an equation, do the same to the other side.

- Q1. **Basics:** Write as expressions: 5 more than thrice x ; 4 less than twice y . What is the coefficient of x in $7x^2 + 3x$?
- Q2. **Solve:** $3x - 5 = 16$ and $x/4 + 3 = 9$.
- Q3. **Solve:** $2(x + 3) = 18$ and $5x - 7 = 3x + 9$.
- Q4. The sum of two consecutive numbers is 75. Find the numbers.

Day 5: Monday, 19 October

Percentage, Ratio and Profit and Loss

Remember: Percent means per hundred. $SP = MP - \text{Discount}$. $\text{Profit \%} = (\text{Profit} \div CP) \times 100$.

- Q1. **Basics:** Convert: $3/4$ to a percentage, 40% to a fraction, 0.25 to a percentage.
- Q2. Find 15% of 480, and find what percent 36 is of 120.
- Q3. A shirt marked ₹800 is sold at a 20% discount. Find the selling price.
- Q4. An article bought for ₹250 is sold for ₹300. Find the profit percent. Also divide ₹360 in the ratio 4 : 5.

Day 7: Wednesday, 21 October

Lines, Angles and Triangles

Remember: Angles of a triangle add up to 180° . An exterior angle equals the sum of the two interior opposite angles.

- Q1. **Basics:** Find the complement of 65° and the supplement of 110° .
- Q2. The angles of a triangle are in the ratio 2 : 3 : 4. Find each angle.
- Q3. The exterior angle of a triangle is 110° and one interior opposite angle is 45° . Find the other interior opposite angle.
- Q4. Find the hypotenuse of a right triangle with legs 6 cm and 8 cm. Is a triangle with sides 5, 12, 13 a right triangle?

Day 8: Thursday, 22 October

Perimeter and Area

Remember: Triangle area = $\frac{1}{2} \times \text{base} \times \text{height}$. Parallelogram area = $\text{base} \times \text{height}$. Circle: $C = 2\pi r$, $A = \pi r^2$.

- Q1. **Basics:** Write from memory the area of a rectangle, square, triangle and circle, and the circumference of a circle.
- Q2. Find the area of a triangle with base 14 cm and height 9 cm, and of a parallelogram with base 12 cm and height 7 cm.
- Q3. For a circle of radius 7 cm, find the circumference and area ($\pi = 22/7$).
- Q4. A room $6 \text{ m} \times 4 \text{ m}$ is to be tiled with square tiles of side 50 cm. How many tiles are needed?

Day 9 & 10: Friday, 23 October & 24 October

Do your other activity related works like MDP, Art integrated Project, Learner's Diary etc.

Happy Holidays and Happy Dussehra!

Note: Do holidays' homework in a file or holiday's homework notebook separately.

2) कक्षा - सप्तमी(7th) विषय:-संस्कृतम्)

- 1) निम्नलिखित नाट्यांशात् चित्वा स्वयमेव प्रश्नान् निर्माय उत्तराणि अपि लिखन्तु?

हिरण्यकशिपुः – अयि भोः अनुजे! होलिके!! होलिके!!! कुत्र असि त्वम्? इत इतः।
 होलिका – प्रणमामि भ्रातः! कथं मां स्मरसि? किमर्थं दुःखितः भासि? किं कारणम् अस्य दुःखस्य? वद भ्रातः! वद।
 हिरण्यकशिपुः – अनुजे! त्वं जानासि एव, मम पुत्रः एव मम शत्रुः जातः। (क्षीणस्वरेण सर्वं वृत्तान्तं कथयति)
 होलिका – भ्रातः! अलं चिन्तया, ब्रह्मणः वरप्रसादात् अग्निः मां न दहति, अहं ज्वालयिष्यामि प्रह्लादम्। आश्वस्तो भव।
 (होलिका प्रह्लादकक्षं प्रविशति)
 प्रह्लादः – (होलिकां दृष्ट्वा) पितृष्वसः! (आलिङ्गति)
 होलिका – अयि भोः प्रह्लाद! आगच्छ, आवां क्रीडिष्यावः।
 प्रह्लादः – (सहर्षम्) बाढम्।
 होलिका – प्रथमं त्वं माम् अन्विष्यसि।
 प्रह्लादः – (सहर्षम्) साधु।
 (होलिका प्रह्लादस्य नेत्रयोः पट्टिकां बध्नाति। किञ्चित् दूरे अग्निं प्रज्वलयति। स्वयम् अग्नौ उपविश्य करतलध्वनिना आह्वयति।)
 होलिका – अत्र, अहम् अत्र अस्मि, इत इतः।

क) एकपदेन त्रीणि प्रश्नानि लिखित्वा उत्तराणि लिखन्तु?

ख) अष्ट अव्ययपदानि चित्वा लिखन्तु?

ग) पञ्च क्रियापदानि चित्वा लिखन्तु?

2) “ईशावास्यमिदम् सर्वम्” (सप्तमः पाठः) इत्यस्य पाठस्य प्रश्न संख्या 1,3,5,6, लिखित्वा स्मरन्तु? (लिखकर याद करें)

3) “हितं मनोहारि च दुर्लभं वचः” एतस्य पाठस्य निम्नलिखित सूक्तिनां हिन्दी अर्थ सहितं लिखित्वा सूक्तयः स्मरन्तु? (अर्थ सहित याद लिखकर याद करें?)

क) माता भूमिः पुत्रोऽहम् पृथिव्याः।

ख) शरीरमाद्यं खलु धर्म साधनम्।

(अधोलिखितम् केवलं सूक्तयः एव कंठस्थम् कुर्वन्तु? (नीचे दिए गए सूक्तियों को केवल कंठस्थ करें)

क) मा ब्रूहि दीनम् वचः। (ख) यस्तु क्रियावान् पुरुषः स विद्वान्।

ग) शीलं परम् भूषणम्। (घ) हितं मनोहारि च दुर्लभम् वचः।

4) पाठ्य पुस्तकात् चित्वा कोऽपि त्रीणि श्लोकानि चित्वा अर्थसहितं लिखित्वा स्मरन्तु? (पाठ्य पुस्तक में से कोई भी तीन श्लोक लिखकर याद करें)

(नोट- कृपया सभी छात्र रोज़ समय निकालकर पठन, लेखन और उच्चारण अभ्यास ज़रूर करें।)

3) विषय - हिन्दी

कला-समेकित प्रोजेक्ट, कक्षा - सातवीं (पाठ - वर्षा बहार)

1. दृश्य कला (चित्रकला):E

- कविता में आए प्राकृतिक दृश्यों जैसे—"नभ में छटा अनूठी, घनघोर छा रही है" या "चलते हैं हंस कहीं पर, बाँधे कतार सुंदर" को देखकर अपनी ड्राइंग शीट पर एक सुंदर चित्र बनाइए और उसमें रंग भरिए।
- कागज़ से सुंदर रंग-बिरंगे मोर या कागज़ की नावें बनाकर अपनी प्रोजेक्ट फाइल पर चिपकाइए।

2. संगीत और लोकगीत :

- हमारे देश में वर्षा या सावन के महीने में कई लोकगीत गाए जाते हैं। अपने परिवार या इंटरनेट की सहायता से वर्षा ऋतु से जुड़ा कोई एक लोकगीत या कविता खोजकर अपनी फाइल में लिखिए और उसका एक सुंदर ऑडियो या वीडियो प्रोजेक्ट के रूप में जमा कीजिए।

3. रचनात्मक लेखन और चित्रकला :

कविता की पंक्तियों—"करते हैं नृत्य वन में, देखो ये मोर सारे" और "मैंढक लुभा रहे हैं, गाकर सुगीत प्यारे"—को ध्यान में रखते हुए, एक छोटी सी कहानी या अनुच्छेद अपने शब्दों में लिखिए और उसके चारों ओर सुंदर चित्रकारी कीजिए।

(4) Science -VII(HHW)

1. Read and learn all the lessons from 7 to 10.
2. Read and write one page each about given scientists of India. Also paste their pictures. You can draw the picture.(Any 3)
 - a) Dr. Homi j. bhabha
 - b) Dr. C. V. Raman
 - c) Jagdish Chandra Bose
 - d) Srinivasa Ramanujan
 - e) Dr. A.P.J. Abdul kalam

(5) ARTIFICIAL INTELLIGENCE CLASS 7

Activity 1: The Three Domains of AI

Write a short explanation of the following AI domains and provide two examples of each:

- Data
- Computer Vision
- Natural Language Processing (NLP)

Activity 2: AI or Not AI?

Classify the following as AI-based or conventional technology. Give a reason for each answer.

1. A traditional calculator
2. A facial recognition system
3. A rule-based digital clock
4. A voice-based virtual assistant
5. A recommendation system on a video platform
6. An ordinary electric switch

Activity 3: Create a Flowchart

Draw a flowchart for a smart school library system that checks whether a book is available.

Your flowchart must include:

- Start and End
- Input: book name
- Decision: Is the book available?
- Two outcomes: "Book Available" and "Book Not Available"

Activity 4: Responsible AI Case Study

A student uses an AI tool to complete an entire assignment and submits the answer without checking it.

Answer the following:

1. What mistake did the student make?
2. What are two possible risks of this practice?
3. How can the student use AI responsibly?
4. Why is original thinking important?

Activity 5: AI Innovation Challenge

Design an AI-based solution for one school problem, such as reducing food waste, saving electricity, improving library management, or maintaining a school garden.

Include the problem, your proposed solution, the data needed, and how your solution would help.

(6) (English - Holiday Homework)

1. Read three pages daily.

2. Learn all your classwork.
3. Write a diary entry about any two days of your holidays.
4. MDP (Multidisciplinary Project).
5. Make a 2-minute video on any one of the following topics:
 - * A Story
 - * An Event
 - * A Place

(7) CLASS – 7TH(ART)

MAKE 02 FLOWER PAINTING WITH POSTER COLOUR .

(8)SOCIAL SCIENCE(7thClass-HHW)

1. Complete Q.1A of Chapter-2
2. Make a maps of neighbour countries of india.
3. Revise chapter-1 and 2 of part-2 and 11,12 of part-1