

# PM SHRI KENDRIYA VIDYALAYA ARA

SESSION - 2026-27

Class 1

SUBJECT -English

## Autumn Break Holiday Homework

### 1. Reading & Oral Skills (Speaking)

- **Daily Reading Practice:** Read **one page aloud** every day from your English textbook to improve fluency.
- **Poem Recitation:** Learn any **one English poem** from your syllabus .Practice reciting it with proper actions and expressions for your family.

### 2. Writing & Handwriting

- **Beautiful Handwriting:** Write **5 lines daily** in your 4-line cursive/handwriting notebook. Focus on neat letter formations.
- **Creative Writing:** Write **3 simple sentences** about **"My Mother"** or **"My Pet/Favorite Animal"** in your notebook.
  - *(Example: This is my pet cat. It is white in color. It likes to drink milk.)*

### 3. Grammar & Vocabulary Fun

- **Naming Words (Nouns):** Look around your house and write down the names of:
  - **5 People** (e.g., Mother, Father, Brother...)
  - **5 Places** (e.g., Kitchen, Park, School...)
  - **5 Things** (e.g., Chair, Toy, Pen...)
- **One and Many (Singular/Plural):** Convert the following words into 'Many' by adding **-s**:
  - Boy → \_\_\_\_\_
  - Tree → \_\_\_\_\_
  - Ball → \_\_\_\_\_
  - Cup → \_\_\_\_\_
  - Book → \_\_\_\_\_

### 4. Creative Activity & Art Integration

- **The Alphabet Tree:** Draw a big tree on an A4 sheet. Cut out small paper circles, write capital letters (**A-Z**) on them, and paste them as fruits on the tree.
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## कक्षा 1 - हिंदी गृहकार्य (शरदकालीन अवकाश)

### 1. लेखन कार्य:

- अ से अः तक सुंदर लिखावट में 2 बार लिखो।
- आ, इ, ई, उ, ऊ, ए, ऐ, ओ, औ की मात्रा वाले 10-10 शब्द लिखो।
- 5 फलों और 5 फूलों के नाम हिंदी में लिखो।

### 2. सुलेख:

- रोज़ एक पेज सुलेख लिखो (पतली कॉपी में)।

### 3. याद करने का कार्य:

- कोई 2 कविता याद करो - जैसे "झूला" या "आम"।
- अपनी पाठ्यपुस्तक सारंगी के पाठ 10 से 12 के प्रश्न-उत्तर याद करो।

### 4. रचनात्मक कार्य (A4 शीट पर):

- मात्राओं का पेड़ (मात्रा वृक्ष) बनाओ - जैसे आ = आम, आग।
- कमल और मोर का चित्र बनाकर रंग भरो।
- अपने परिवार के 5 सदस्यों के चित्र चिपकाकर उनके नाम लिखो।

## Class 1 Maths - Autumn Break Holiday Homework

### CLASS 1 - MATHS (Autumn Break)

#### 1. Writing Work (in Maths notebook):

- Write counting from 1 to 100 - 2 times.
- Write number names from 1 to 50.
- Write and learn tables of 2, 3, 4, 5.

#### 2. Practice Work:

- Write After, Before and Between numbers:

1. \_ 45

2. \_

3. 79 \_

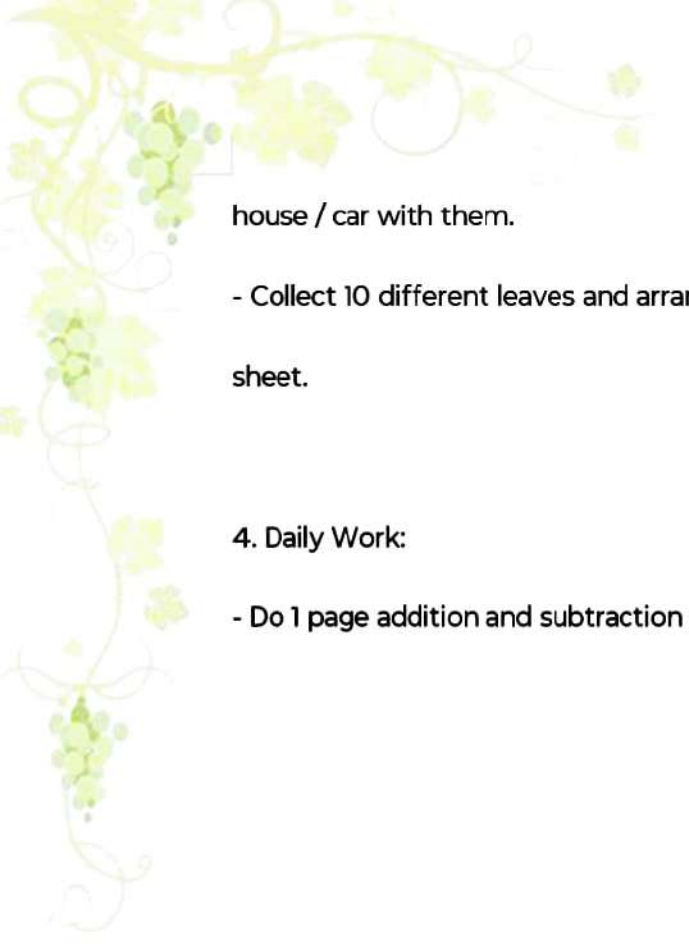
4. \_ 100

- Put  $>$ ,  $<$  or  $=$  sign:  $56$  \* \_  $65$ ,  $89$  \* \_  $89$ ,  $12$  \_\_\_  $21$

- Write Greatest to Smallest:  $34, 78, 12, 90, 56$

#### 3. Activity Work (on A4 sheet / chart):

- Make beautiful bundles of tens and ones (like  $23 = 2$  bundles of  $10 + 3$  ones) using sticks or straws.
- Make shapes with different colours - Circle, Square, Triangle, Rectangle - and make a



house / car with them.

- Collect 10 different leaves and arrange them from smallest to biggest and paste on sheet.

#### 4. Daily Work:

- Do 1 page addition and subtraction sums daily (Double digit).



## कक्षा 2 - हिंदी गृहकार्य (शरदकालीन अवकाश)

1. प्रतिदिन एक पृष्ठ हिंदी पठन एवं एक पृष्ठ लेखन का अभ्यास कीजिए।
2. प्रतिदिन पाँच नए हिंदी शब्द लिखिए, उनके अर्थ समझिए और उन्हें याद कीजिए।
3. कविता और चित्र :-

एक कविता याद कीजिए।

कविता से संबंधित चित्र बनाइए।

कविता की चार पंक्तियाँ सुंदर लिखावट में लिखिए।

4. अपने पसंदीदा त्योहार का एक चित्र चिपकाइए तथा उसके बारे में दस वाक्य लिखिए।

5. विशेषण पहचानो :-

पाँच वस्तुओं के चित्र बनाइए।

प्रत्येक के लिए एक विशेषता बताने वाला शब्द लिखिए।

उदाहरण: लाल गुलाब, मीठा आम, लंबा पेड़।

PM SHARI KENDRIYA VIDYALAYA ARA

Class -2

Maths

1. Project : Measurement Hunt

Measure the length of 5 objects using a ruler.

Record their lengths in centimetres.

Arrange the objects from shortest to longest.

Find the difference between the longest and shortest objects.

2. Solve the following word problems. Show your calculations.

- A) At the Library: A library has 245 storybooks and 132 picture books. How many books are there altogether?
- B) Fruit Seller: A fruit seller had 350 apples. He sold 125 apples in the morning and 95 apples in the evening. How many apples are left?
- C) School Garden: Children planted 128 flowers on Monday and 146 flowers on Tuesday. How many flowers did they plant in all?
- D) Toy Shop: A toy shop had 275 toys. It sold 138 toys. How many toys are still left in the shop?
- E) Collection of Stamps: Rohan collected 156 stamps, and his friend collected 187 stamps. How many stamps did they collect altogether?
- F) School Bus: There were 48 children on a bus. At the first stop, 12 children got down, and at the next stop, 9 children got down. How many children remained on the bus?
- G) Water Bottles: A shop had 425 water bottles. It received 175 more bottles. If 230 bottles were sold, how many bottles are left?
- H) Book Fair: A school sold 235 books on the first day and 189 books on the second day. If the school had 500 books, how many books were left?
- I) The Missing Number: There were some mangoes in a basket. After adding 125 mangoes, there were 300 mangoes. How many mangoes were in the basket at first?

Daily activity - Revise table upto 20

Play quick calculation games with your parents

**PM SHRI KV ARA**  
**CLASS – 3 A    AUTUMN BREAK HOLIDAY HOMEWORK**  
**SUBJECT – TWAU**

**Q1. Answer the following questions.**

1. Why is water important for us?

\_\_\_\_\_

2. Name three sources of water.

\_\_\_\_\_

3. Write any five uses of water.

\_\_\_\_\_

4. What is rainwater harvesting?

\_\_\_\_\_

5. Why should we save water?

\_\_\_\_\_

**Q2. Fill in the blanks.**

1. We need water to \_\_\_\_\_ and \_\_\_\_\_.

2. Rain is a natural source of \_\_\_\_\_.

3. We should turn off the tap while brushing our \_\_\_\_\_.

4. Water has no colour, smell or \_\_\_\_\_.

5. We should not \_\_\_\_\_ water.

**Q3. Write True or False.**

1. Plants need water to grow. \_\_\_\_\_

2. We should leave taps running. \_\_\_\_\_

3. Animals need water to live. \_\_\_\_\_

4. Rainwater can be collected and stored. \_\_\_\_\_

5. We should drink dirty water. \_\_\_\_\_

**Q4. Match the following.**

| Column A           | Column B          |
|--------------------|-------------------|
| 1. Rain            | a. Cleaning       |
| 2. Drinking water  | b. Natural source |
| 3. Washing clothes | c. Staying alive  |
| 4. Plants          | d. Safe water     |

**Q5. Water Conservation Activity**

Observe your home for one day and write five ways your family can save water.

**Q6. Draw and Colour**

Draw a beautiful picture showing “Save Water, Save Life”. Write a meaningful slogan below it.

**Q7. My Water Diary**

Observe your daily activities and complete the table.

| Activity         | How can I save water? |
|------------------|-----------------------|
| Brushing teeth   |                       |
| Bathing          |                       |
| Washing hands    |                       |
| Watering plants  |                       |
| Washing utensils |                       |

**Q8. Creative Activity**

Make a small poster on “WATER – A PRECIOUS GIFT” using colours, drawings and a slogan.

# PM SHRI KENDRIYA VIDYALAYA ARA

SESSION -2026-27

Class 3

SUBJECT -Mathematics

## Autumn Break Holiday Homework

**Q1.** Look around your house during the festival. Find and name **2 objects** for each of the following shapes. Draw them and color them neatly:

- **Rectangle (आयत):** (e.g., Currency note, TV screen)
- **Circle (वृत्त):** (e.g., Bindi, Diya base, Plate)
- **Square (वर्ग):** (e.g., Ludo board, Handkerchief)

**Q2.** Imagine your parents gave you ₹100 for Diwali/Dussehra shopping. You bought:

- A toy for ₹45
- A packet of sweets for ₹35

• **Questions to solve:**

1. How much total money did you spend? (₹45 + ₹35)
2. How much money is left with you now? (₹100 - Total spent)

**Q3.** Draw a beautiful "Multiplication Tree" on an A4 sheet.

- Write the multiplication tables of **4 and 7** inside the leaves or branches of the tree. Color the tree green and brown.

•

**Q4.** Use your **handspan (बिजा)** or a **pencil** to measure the length of the following items in your home and write down the numbers:

1. Length of your Mathematics textbook = \_\_\_\_\_ pencils long.
2. Length of the dining table or study table = \_\_\_\_\_ handspans long.
3. Length of your school bag = \_\_\_\_\_ pencils long.
- 4.

**Q5.** Decode the hidden message by looking at the number-letter pattern below.

- *Rule: 1=A, 2=B, 3=C, 4=D... and so on.*
- **Find the secret word for: 13 – 1 – 20 – 8**

**Note: Do the HWs in separate notebook.**

# PM SHRI KENDRIYA VIDYALAYA ARA

SESSION -2026-27

Class 3.            SUBJECT -English:

## Autumn Break Holiday Homework

**Q1.** Do **5 pages of neat handwriting** in your notebook.

**Q2.** Find and write **20 new words** from the poem/story from your textbook with their meanings.

**Q3.** Draw or paste a picture of your favorite **Autumn Festival** .

**Q4.** Look around your house during the holidays. Find and write down:

- **3 Names of Persons** (Other than Family members)
- **3 Names of Places** ( cities you visit)
- **3 Names of Things** (Toys, sweets or gifts)

**Q5.** Make a list of **5 Action Words (Verbs)** that you do during your holidays (e.g., *play, eat, sleep, read, dance*).

- Draw a small, simple stick-figure cartoon next to each word to show that action.

**Note: Do the HW in a separate notebook.**

# शरद ऋतु अवकाश गृहकार्य

## कक्षा 3 - हिंदी

### निर्देश

1. सारा काम हिंदी की अलग कॉपी में सुंदर लिखावट में करो ।

1. रिक्त स्थान भरों:

(क) बीरबल \_\_\_\_\_ के दरबार में मंत्री थे।

(ख) कहानी में सर्दी का मौसम था और एक गरीब आदमी रात भर ठंडे \_\_\_\_\_ में खड़ा रहा।

(ग) बीरबल ने खिचड़ी पकाने के लिए बर्तन आग से बहुत \_\_\_\_\_ टाँग दिया।

2. शब्दों का मिलान करो (रेखा खींचकर या अक्षर लिखकर):

|            |  |                             |
|------------|--|-----------------------------|
| (क) दरबार  |  | (1) चावल और दाल से बना भोजन |
| (ख) खिचड़ी |  | (2) जहाँ राजा सभा लगाता है  |
| (ग) इनाम   |  | (3) पुरस्कार                |

3. अकबर ने गरीब आदमी को इनाम क्यों नहीं दिया? दो वाक्यों में लिखो।

4. बीरबल ने अकबर को कैसे समझाया? अपने शब्दों में लिखो।

5. इस कहानी से तुमने क्या सीखा? एक वाक्य लिखो और कहानी का कोई एक दृश्य बनाओ।

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### भाग ख - पाठ 7: मित्र को पत्र

1. पत्र के भागों के नाम लिखो (शब्द-पेटी से चुनो):

**शब्द-पेटी:** संबोधन, दिनांक, तुम्हारा मित्र, पत्र की बात

(क) पत्र के ऊपर लिखी तारीख को \_\_\_\_\_ कहते हैं।

(ख) “प्रिय दोस्त” जैसे शब्दों को \_\_\_\_\_ कहते हैं।

(ग) पत्र के अंत में नाम से पहले \_\_\_\_\_ लिखा जाता है।

2. पाठ में पत्र किसने किसे लिखा है? दोनों के नाम लिखो।

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3. पाठ में लिखे पत्र में मित्र ने अपनी कौन-कौन सी बातें बताई हैं? कोई तीन बातें लिखो।

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4. तुम्हें अपने किस मित्र की याद आती है? उसका नाम और उसकी एक अच्छी आदत लिखो।

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## भाग ग - व्याकरण

1. संज्ञा शब्दों के नीचे रेखा खींचो: बीरबल, मीठा, दरबार, खिचड़ी, दौड़ना, दिल्ली, किताब।

2. खाली जगह में सही सर्वनाम (मैं, तुम, वह, हम, वे) लिखो:

(क) \_\_\_\_\_ अपने मित्र को पत्र लिखता हूँ।

(ख) \_\_\_\_\_ कल स्कूल जाओगे?

(ग) राधा खेल रही है। \_\_\_\_\_ बहुत खुश है।

3. वचन बदलो (एकवचन ↔ बहुवचन): पत्र, किताब, चिड़िया, फूल, दरबारी, कहानियाँ।

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4. लिंग पहचानकर लिखो (पुल्लिंग / स्त्रीलिंग): दरबार, खिचड़ी, आग, बर्तन, नदी, मित्र।

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5. विलोम शब्द लिखो: सदी, अमीर, दिन, ऊपर, पास, सच।

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6. इन वाक्यों में से क्रिया (काम दर्शाने वाला शब्द) छाँटकर लिखो:

(क) बीरबल ने खिचड़ी पकाई। (ख) बच्चे पत्र लिखते हैं। (ग) अकबर दरबार में बैठे।

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## भाग घ - रचनात्मक लेखन

1. 'मेरी शरद ऋतु की छुट्टियाँ' विषय पर 5-6 वाक्यों का अनुच्छेद लिखो।
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2. अपने किसी मित्र को पत्र लिखो। उसमें अपनी छुट्टियों की बातें बताओ और उसका हाल पूछो। (दिनांक, संबोधन, पत्र की बात और अंत में अपना नाम जरूर लिखो।)

# AUTUMN BREAK HOLIDAY HOMEWORK

Class 3 | Mathematics |

## Questions (write in your maths notebook)

1. Add: (a)  $235 + 142$  (b)  $468 + 275$  (c)  $357 + 489$
2. Subtract: (a)  $586 - 243$  (b)  $704 - 358$  (c)  $900 - 467$
3. Ria has 245 stickers. Her friend gives her 178 more. How many stickers does Ria have now?
4. Fill in the blanks:  $340 + \underline{\quad} = 500$  and  $\underline{\quad} - 125 = 275$

1. Add: (a)  $536 + 287$  (b)  $649 + 198$  (c)  $478 + 346$
2. A shop had 750 pencils. It sold 365. How many pencils are left?
3. Make a 3-digit number using 4, 7 and 2 only once. Write the biggest and smallest numbers and find their difference.
4. Mohan read 128 pages on Monday and 145 pages on Tuesday. How many pages did he read in all?

1. Subtract and check by adding: (a)  $823 - 456$  (b)  $615 - 279$
2. A bus carries 150 passengers in the morning and 85 fewer in the evening. How many passengers are there in the evening?
3. Complete the pattern: 120, 240, 360,  $\underline{\quad}$ ,  $\underline{\quad}$ ,  $\underline{\quad}$
4. Write 2 word problems of your own, one on addition and one on subtraction, and solve them.

1. Write the days of the week in order. Which day comes after Friday? Which day comes before Wednesday?
2. Write the names of all 12 months. Which months have 30 days? Which have 31 days?
3. Draw a clock showing (a) 3 o'clock (b) half past 6 (c) quarter past 9
4. How many days are there in one week? How many days in 2 weeks?

1. Draw and cut or colour the calendar of this month. Circle the dates of all Sundays.
2. Read the calendar you made and answer: How many days are in this month? On which day does the month begin?
3. School starts at 8:00 in the morning and ends at 2:00 in the afternoon. How many hours is the school open?
4. Write 5 things you do in a day and the time you do each one.

# PM SHRI KENDRIYA VIDYALAYA, ARA

## AUTUMN BREAK HOMEWORK

CLASS III B

SUBJECT-TWAU

1. Make a poster on the given topic.
  - Roll no. 1 to 16 --- Save water , Save life.
  - Roll no. 17 to 32— Sources of water
  - Roll no. 33 to 47 --- Uses of water
2. Observe your kitchen and make a list of 5 food items that are eaten raw and 5 food items that are cooked before eating.
3. Learn all states and union territories of India along with their capitals.
4. Make a food diary for what you eat for one day. Circle **Healthy foods** in green and **Junk foods** in red.
5. Read Chapter no. 7 and 8.

Note- Do all the work on A4 sheets.

# PM SHRI KENDRIYA VIDYALAYA, ARA

## AUTUMN BREAK HOMEWORK

CLASS IV A & B

SUBJECT-TWAU

1. Draw and label the main steps of farming on cards.
2. Locate the given states on political map of India.  
(a) Himachal Pradesh (b) Maharashtra (c) Assam  
(d) Gujarat (e) Rajasthan (f) Karnataka (g) Kerala (h) Madhya Pradesh
3. For a week , keep a record of the food you eat for breakfast, lunch , dinner and complete the given table.

| Day | Breakfast | Lunch | Dinner | Did you eat fully? | Did you waste? | How do you feel? |
|-----|-----------|-------|--------|--------------------|----------------|------------------|
| 1.  |           |       |        |                    |                |                  |
| 2.  |           |       |        |                    |                |                  |
| 3.  |           |       |        |                    |                |                  |
| 4.  |           |       |        |                    |                |                  |
| 5.  |           |       |        |                    |                |                  |
| 6.  |           |       |        |                    |                |                  |
| 7.  |           |       |        |                    |                |                  |

4. Make a spinner using waste materials.
5. Read Chapter no. 6 and 7

**NOTE- Do all the work on A4 sheet.**

# ENGLISH HOLIDAY HOMEWORK -

## Class 4

### 1. Grammar Work (Do in English copy)

- Write 10 pairs of Singular - Plural words.
- Write 20 Common Nouns and 20 Proper Nouns.
- Write 3 words of each letter of English Alphabet (A to Z).

### 2. Writing Skill (Do on A4 size paper)

- Write a paragraph on My Favourite Festival - Diwali / Dusshera(80-100 words).
- Write a letter to your best friend telling how you spent your Autumn Break. [15-20 lines]

### 3. Santoor Textbook Work

- Read Chapter 7 and learn all Q/A done in notebook.

- Do one page of cursive handwriting daily.

#### 4. Creative Work

- Make a Vocabulary Wall with 20 new difficult words from your reading, write meanings and make one sentence with each.
- Prepare a 2-minute speech on "Why Books are My Best Friends".

Note: Do all work neatly in a separate homework notebook / A4 sheets.



# PM SHRI KV ARA

## CLASS – 4 B AUTUMN BREAK HOLIDAY HOMEWORK

### SUBJECT – MATHEMATICS

#### Q1. Fill in the blanks.

- 1 kilogram = \_\_\_\_\_ grams.
- 1 litre = \_\_\_\_\_ millilitres.
- 500 g + 500 g = \_\_\_\_\_ kg.
- 2 L = \_\_\_\_\_ mL.
- The unit commonly used to measure the weight of a school bag is \_\_\_\_\_.
- The unit commonly used to measure a small amount of medicine is \_\_\_\_\_.

#### Q2. Convert the following.

- 3 kg = \_\_\_\_\_ g
- 4,000 g = \_\_\_\_\_ kg
- 2 L 500 mL = \_\_\_\_\_ mL
- 3,500 mL = \_\_\_\_\_ L \_\_\_\_\_ mL
- 750 g + 250 g = \_\_\_\_\_ g = \_\_\_\_\_ kg
- 5 L – 2 L 500 mL = \_\_\_\_\_

#### Q3. Compare using >, < or =.

- 2 kg \_\_\_\_\_ 1,500 g
- 1 L \_\_\_\_\_ 900 mL
- 750 g \_\_\_\_\_ 1 kg
- 2,000 mL \_\_\_\_\_ 2 L
- 1 kg 200 g \_\_\_\_\_ 1,020 g

#### Q4. Solve the word problems.

1. A shopkeeper has a 5 kg bag of rice. He sells 2 kg 500 g. How much rice is left?

---

2. A bottle contains 1 L of juice. Riya drinks 250 mL. How much juice remains?

---

3. A watermelon weighs 3 kg 200 g and a pumpkin weighs 2 kg 800 g. What is their total weight?

---

---

4. A family uses 2 L of milk each day. How much milk will it use in 4 days?

---

---

5. A jug contains 2 L of water. If 750 mL is poured out, how much water remains?

---

**Q5. Complete the table.**

| Object / Liquid   | Suitable unit | Estimated amount / weight |
|-------------------|---------------|---------------------------|
| A pencil          | g / kg        | _____                     |
| A school bag      | g / kg        | _____                     |
| A bucket of water | mL / L        | _____                     |
| A glass of water  | mL / L        | _____                     |
| A bag of potatoes | g / kg        | _____                     |

**Q6. Practical Activity – Weigh It!**

With an adult's help, choose any five objects at home. Estimate their weight, check it using a weighing scale if available, and complete the table.

| Object | My estimate | Actual weight (if checked) |
|--------|-------------|----------------------------|
| _____  | _____       | _____                      |
| _____  | _____       | _____                      |
| _____  | _____       | _____                      |
| _____  | _____       | _____                      |
| _____  | _____       | _____                      |

**Q7. Think and answer.**

1. Which is heavier: 1 kg of cotton or 1 kg of iron? Explain your answer.

---

2. Why do we use litres to measure milk but kilograms to measure potatoes?

---

3. Write two examples of things measured in grams and two examples measured in kilograms.

---

4. Write two examples of liquids measured in millilitres and two measured in litres.

---

# शरदकालीन अवकाश गृहकार्य

कक्षा - 5 | विषय - हिन्दी

---

## प्रश्न 1. अनुच्छेद लेखन

“मेरा प्रिय त्योहार” - शरद ऋतु में आने वाले अपने किसी प्रिय त्योहार (दशहरा / दीपावली आदि) पर 8-10 वाक्यों का अनुच्छेद लिखो। त्योहार की तैयारियों और अपनी खुशी का वर्णन जरूर करो।

## प्रश्न 2. पत्र लेखन

अपने किसी मित्र को पत्र लिखकर बताओ कि तुमने शरदकालीन अवकाश कैसे बिताया या बिताने की योजना बनाई है। पत्र में उसे अपने घर आने का निमंत्रण भी दो।

## प्रश्न 3. कहानी लेखन

नीचे दी गई पंक्ति से कहानी आरंभ करके उसे पूरा करो और अंत में एक शीर्षक व सीख लिखो:

“एक सुबह जब मैंने खिड़की खोली, तो पेड़ से गिरता एक सुनहरा पत्ता मुझसे बातें करने लगा...”

## प्रश्न 4. कविता लेखन

“शरद ऋतु” विषय पर कम-से-कम 8 पंक्तियों की अपनी मौलिक कविता लिखो। कविता में तुकबंदी का प्रयोग करो और उसके साथ एक सुंदर चित्र बनाओ।

## प्रश्न 5. डायरी लेखन

अवकाश के किसी एक यादगार दिन (मेले, यात्रा, दादा-दादी/नाना-नानी के घर या किसी खेल का दिन) के बारे में अपनी डायरी में तारीख, दिन और समय के साथ लिखो। उस दिन तुमने क्या देखा, क्या सीखा और कैसा महसूस किया - यह जरूर बताओ।

**PM SHRI KV ARA**  
**CLASS – 5 A    AUTUMN BREAK HOLIDAY HOMEWORK**  
**SUBJECT – MATHEMATICS**

A. Fill in the blanks.

1. 1 kg = \_\_\_\_\_ g
2. 1 litre = \_\_\_\_\_ mL
3. 3 kg = \_\_\_\_\_ g
4. 5 L = \_\_\_\_\_ mL
5. 2,500 g = \_\_\_\_\_ kg \_\_\_\_\_ g
6. 3,750 mL = \_\_\_\_\_ L \_\_\_\_\_ mL

B. Convert the following.

1. 7 kg 250 g into grams.
2. 4 kg 500 g into grams.
3. 6 L 250 mL into millilitres.
4. 8,500 mL into litres and millilitres.
5. 9,000 g into kilograms.
6. 2 L 750 mL into millilitres.

C. Solve the following.

1. Add 3 kg 450 g and 2 kg 750 g.
2. Subtract 2 kg 650 g from 5 kg 200 g.
3. Add 4 L 500 mL and 2 L 750 mL.
4. Subtract 3 L 250 mL from 7 L.

D. Solve the word problems.

1. Riya bought 2 kg 500 g of apples and 1 kg 750 g of oranges. What is the total weight of the fruits?
2. A shopkeeper had 10 kg of rice. He sold 4 kg 500 g. How much rice is left?
3. A bottle contains 1 L 500 mL of juice. How much juice will 4 such bottles contain?
4. A water tank contains 25 L of water. If 8 L 750 mL of water is used, how much water remains?
5. A milkman has 15 L of milk. He pours it equally into 5 containers. How much milk does each container hold?

### E. Activity-Based Learning

1. Find the weight of any five household items using a weighing scale. Write their names and weights in your notebook.
2. Observe any five containers at home. Write their names and capacities in litres or millilitres.
3. Draw and label any three objects used to measure weight and any three objects used to measure capacity.

### F. Arrange in Ascending Order

2 kg, 1,500 g, 2 kg 250 g, 1 kg 750 g

3 L, 2,500 mL, 3 L 250 mL, 1 L 750 mL

# PM SHRI KENDRIYA VIDYALAYA ARA

## AUTUMN BREAK HOLIDAY HOMEWORK

### SESSION -2026-27

**CLASS-5**

**SUBJECT -ENGLISH**

1. Write a neat paragraph (80–100 words) on a major autumn festival like **Dussehra** or **Diwali**, and paste/draw a related picture.
2. Read at least two chapters from your English textbook and write down **5 new words** from each chapter with their meanings.
3. Create small flashcards on a grammar topic – “PREPOSITION”
4. Do **5 pages** of neat handwriting works in a separate notebook .
5. Draw the pictures of game “ Gilli Danda” and write a short paragraph on it.
6. Make a list of verb forms (V1,V2 and V3 ) in a tabular form (at least 20 verbs).

Note: Do the HW on a separate notebook.

# PM SHRI KENDRIYA VIDYALAYA ARA

## AUTUMN BREAK HOLIDAY HOMEWORK

### SESSION -2026-27

**CLASS-5**

**SUBJECT -ENGLISH**

1. Write a neat paragraph (80–100 words) on a major autumn festival like **Dussehra** or **Diwali**, and paste/draw a related picture.
2. Read at least two chapters from your English textbook and write down **5 new words** from each chapter with their meanings.
3. Create small flashcards on a grammar topic – “PREPOSITION”
4. Do **5 pages** of neat handwriting works in a separate notebook .
5. Draw the pictures of game “ Gilli Danda” and write a short paragraph on it.
6. Make a list of verb forms (V1,V2 and V3 ) in a tabular form (at least 20 verbs).

Note: Do the HW on a separate notebook.

PM SHRI KENDRIYA VIDYALAYA ARA

Autumn Break Holidays Homework

Class - 5 Subject - TWAU

\*1.Choose 2 places - Ladakh, Thar desert, Sundarban, Lakshdweep. For each write - Clothes, Food, houses, paste their pictures also

\*2.List 5 types of energy with examples from your home - Light, heat, sound, mechanical, electrical

\*3.Collect 3 small pieces of different Fabric From home. Paste in notebook and write 2 properties of each

\*4.Take 2 color paper Cut into strips and weave them like a mat. Paste it

\*5.On an out line map of India show Ladakh, Rajasthan, West Bengal, Lakshdweep, Andaman and Nicobar island

प्रत्येक वर्णमाला में चार-चार  
शब्द बनाएं।

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Date \_\_\_/\_\_\_/\_\_\_

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2/ 20 marks to 100 marks

(i) Write and remember  
20 birds name.

(ii) Write capital letter  
A to Z

(iii) Write small letter  
a to z.



# ENGLISH ALPHABET

English Version: 2010  
Class: Grade 1/2

**A**

**a** *a*



Apple

**B**

**b** *b*



Boy

**C**

**c** *c*



Cat

**D**

**d** *d*



Dog

**E**

**e** *e*



Elephant

**F**

**f** *f*



Fish

**G**

**g** *g*



Girl

**H**

**h** *h*



Horse

**I**

**i** *i*



Ice Cream

**J**

**j** *j*



Jug

**K**

**k** *k*



Kite

**L**

**l** *l*



Lion

**M**

**m** *m*



Monkey

**N**

**n** *n*



Nest

**O**

**o** *o*



Orange

**P**

**p** *p*



Peacock

**Q**

**q** *q*



Queen

**R**

**r** *r*



Rose

**S**

**s** *s*



Swan

**T**

**t** *t*



Tiger

**U**

**u** *u*



Umbrella

**V**

**v** *v*



Van

**W**

**w** *w*



Watch

**X**

**x** *x*



X'mas

**Y**

**y** *y*



Yacht

**Z**

**z** *z*



Zebra

SPECIAL CHARTS FOR CHILDREN

Copyright © 1973



# BIRDS पक्षी

Birds - English



GOLDEN EAGLE  
सुनहरी चूड़



ANDEAN CONDOR  
पिंड



BLACK VULTURE  
पिंड



BEE EATER  
सुनहरी चूड़



BLUE-CROWNED PIGEON  
नीला चूड़



BLUE & YELLOW MACAW  
सुनहरी चूड़



BLACK KITE  
कौल



RED KITE  
कौल



COMMON CORMORANT  
जल चूड़



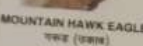
BLUE & WHITE FLYCATCHER  
नीला चूड़



MANAKIN  
कौल



CANARY  
नीला चूड़



MOUNTAIN HAWK EAGLE  
पक्षी (पक्षी)



CROW  
कौल



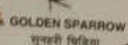
SWIFT  
कौल



HORNBILL  
पक्षी



RED CANARY  
जल चूड़



GOLDEN SPARROW  
सुनहरी चूड़



NIGHTINGALE  
सुनहरी चूड़



CUCKOO  
पक्षी



OWL  
कौल



SWALLOW  
कौल



KINGFISHER  
कौल



MOHAL  
कौल



HOUSE SPARROW  
चूड़



HILL MYNAH  
पक्षी



ROBIN  
कौल



KOEL  
कौल



QUETZAL  
कौल



DUCK  
कौल



BLACK SKIMMER  
कौल



PARTRIDGE  
कौल



DOLLAR BIRD  
कौल



HOPOE  
कौल



WEAVER BIRD  
कौल



SKYLARK  
कौल



WAGTAIL  
कौल



WREN  
कौल



FLAMINGO  
कौल



GOOSE  
कौल



OSTRICH  
कौल



MUNIA  
कौल



PARROT  
कौल



TURKEY HEN  
कौल



QUAIL  
कौल



GREY WAGTAIL  
कौल



KIWI  
कौल



MAGPIE GOOSE  
कौल



SIBERIAN CRANE  
कौल



WATER RAIL  
कौल



PIGEON  
कौल



COCK  
कौल



MOORHEN  
कौल



GREAT BUSTARD  
कौल

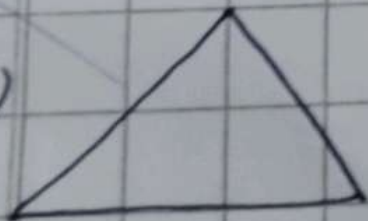


PEACOCK  
कौल

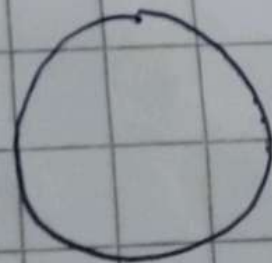


- (1) write and remember table 2 to 20
- (2) write and remember backward counting ~~100~~ 100 to 1
- (3) write and remember roman number 1 to 20
- (4) write and remember counting 1 to 100
- (5) write and remember number name 1 to 100
- (6) write the name of shapes

(1)



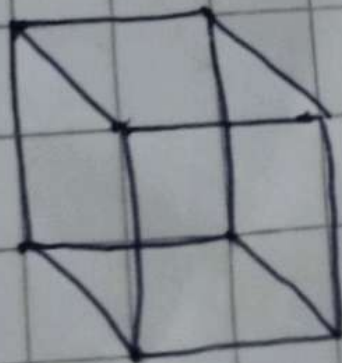
(2)



(3)



(4)



# PM SHRI KENDRIYA VIDYALAYA ARA

SESSION – 2026–27

CLASS – 2 | SUBJECT – ENGLISH

## AUTUMN BREAK HOLIDAY HOMEWORK

### 1. Reading & Oral Skills (Speaking)

- **Daily Reading Practice:** Read one page daily from your English textbook to improve reading fluency.
- **Poem Recitation:** Learn any one English poem from your syllabus. Recite it with proper actions and expressions.
- **Storytelling:** Read a short story and narrate it in your own words to your family.

### 2. Writing & Handwriting

- **Beautiful Handwriting:** Write five lines daily in your English notebook. Focus on neat and clean handwriting.
- **Creative Writing:** Write five simple sentences on any one topic: *My Family*, *My School*, or *My Favourite Animal*.
- **Picture Composition:** Draw a picture of a garden and write five sentences about it.

### 3. Grammar & Vocabulary Fun

- **Naming Words (Nouns):** Write the names of five people, five places, five animals and five things.
- **One and Many (Singular/Plural):** Change the following words into plural:

1. Book → \_\_\_\_\_
2. Boy → \_\_\_\_\_
3. Mango → \_\_\_\_\_
4. Class → \_\_\_\_\_
5. Toy → \_\_\_\_\_
6. Box → \_\_\_\_\_

**Opposite Words:** Write the opposites of the following:

1. Big → \_\_\_\_\_
2. Hot → \_\_\_\_\_
3. Day → \_\_\_\_\_
4. Happy → \_\_\_\_\_
5. Tall → \_\_\_\_\_

**Use of A and An:** Fill in the blanks with a or an.

1. \_\_\_\_\_ apple
2. \_\_\_\_\_ ball
3. \_\_\_\_\_ elephant
4. \_\_\_\_\_ umbrella
5. \_\_\_\_\_ kite

### 4. Creative Activity & Art Integration

- **My Picture Dictionary:** Make a picture dictionary on an A4 sheet. Draw or paste pictures of five animals, five fruits and five birds. Write their English names below each picture.
- **Alphabet Fun:** Make a colourful alphabet chart from A to Z using pictures and words.
- **Best Out of Waste:** Make a beautiful greeting card using waste paper and write a short English message on it.

**Instructions:** Complete all written work neatly in your English notebook. Do the creative activities on A4 sheets and submit them after the holidays.

पीएम श्री केंद्रीय विद्यालय आरा

शरदकालीन अवकाश गृहकार्य

कक्षा-४ विषय- हिंदी

1. पाठ 9,10 ,11 को पढ़े और कठिन शब्द 2 बार लिखो।
2. रोज 1 पेज सुलेख करो।
3. शब्दार्थ लिखो और वाक्य बनाओ: यादें, कैमरा, दृश्य, क्लिक
4. . गतिविधि - मेरा कैमरा: एक कैमरे का बड़ा चित्र बनाओ। उसके अंदर अपनी छुट्टियों की 3 यादों के चित्र बनाओ।
5. दिवाली पर तुम्हारे घर कौन सी मिठाई बनती है? उसकी रेसिपी मम्मी से पूछ कर 4 लाइन में लिखो।

# Autumn Break Homework

Class - VI | English (Poorvi)

## Chapter 1

### Spices That Heal Us



- 1 Write the meanings of 10 difficult words from the chapter.
- 2 Answer all the textbook questions in your notebook.
- 3 Write a paragraph on "The Importance of Spices in Our Daily Life" in 100-120 words.
- 4 Make a list of five spices and write one health-related use of each.
- 5 Draw or paste pictures of five spices and label them in English.

## Chapter 2

### Change of Heart



- 1 Write the meanings of 10 difficult words from the chapter.
- 2 Answer all the textbook questions in your notebook.
- 3 Write a character sketch of the main character in 80-100 words.
- 4 Write the moral of the chapter in 50-60 words.
- 5 Write a paragraph on "The Importance of Kindness and Empathy" in 100-120 words.

## Grammar



### 1 Tenses

- a Define tenses and write the names of the three main tenses with examples.
- b Write the structures and two examples each of the Simple Present, Simple Past and Simple Future tenses.
- c Write five sentences each in the Present Continuous, Past Continuous and Future Continuous tenses.
- d Change the following sentences into the past and future tenses:
  - (i) She writes a letter.
  - (ii) They play football.
  - (iii) He goes to school.
  - (iv) I eat an apple.
  - (v) We watch television.



### 2 Parts of Speech

Write five examples each of nouns, pronouns, adjectives and verbs. Use them in sentences.

Noun

Pronoun

Adjective

Verb

## Writing Skills



- 1 Write a diary entry about a memorable day during your autumn break.
- 2 Write a paragraph on "How I Spent My Autumn Break" in 100-120 words.

**Instructions:** Complete all the work neatly in your English notebook. Use your own words and submit it after the autumn break.

शरद कालीन अवकाश हेतु गृह -कार्य

सत्र 2026 -27

कक्षा छठी

विषय हिंदी

पुस्तक मल्हार

1. 'मैया मैं' नहीं माखन खायो 'कविता को ध्यान पूर्वक पढ़ कर चार(4) लघु उत्तरीय प्रश्न उत्तर बनाएं।

– कविता में जितने भी गतिविधियां हैं उसको अपनी कॉपी में लिखिए।

-परीक्षा (प्रेमचंद) पाठ को पढ़कर पांच बहुविकल्पीय प्रश्न उत्तर का निर्माण करें।

व्याकरण

-विशेषण की परिभाषा

-विशेषण के भेदों के नाम

दो -दो उदाहरण सहित लिखें।

-10 विलोम शब्द लिखें

-10 पर्यायवाची शब्द लिखें

पांच मुहावरे का अर्थ लिखकर वाक्य में प्रयोग करें।

2. संवाद लेखन

दशहरे की छुट्टी एवं त्यौहार किस प्रकार आपने बिताई दो मित्रों के बीच हुई बातचीत को संवाद के रूप में लिखिए।

3. अनुच्छेद लेखन

(I)दुर्गा पूजा

विषय शिक्षक

मधु मंजरी लकड़ा पीजीटी (हिंदी)

केंद्रीय विद्यालय खगौल



**PM SHRI KENDRIYA VIDYALAYA ARA  
AUTUMN BREAK HOMEWORK (2026-2027)**

**CLASS - VI  
SUBJECT: MATHS**

**SECTION A (MCQ)**

1. What is the 10th term of the pattern: 1, 4, 9, 16, ...?  
(A) 100 (B) 81 (C) 56 (D) 25
2. Pattern: 1, 3, 6, 10, \_\_\_\_  
(A) 7 (B) 10 (C) 13 (D) 15
3. In a triangle pattern, every new triangle adds 2 extra matchsticks. If 3 triangles need 7 matchsticks, how many are required for 10 triangles?  
(A) 22 (B) 25 (C) 21 (D) 19
4. How many angles are formed when two rays meet at a point and a third ray is drawn between them?  
(A) 1 (B) 3 (C) 2 (D) 4
5. A straight angle is equal to the sum of:  
(A) one obtuse and one acute angle (B) two right angles (C) two acute angles (D) one obtuse angle
6. Which angle is greater than a right angle but less than a straight angle?  
(A) Acute angle (B) Obtuse angle (C) Reflex angle (D) Zero angle
7. Which of these is not a palindromic time in HH:MM 12-hour format?  
(A) 03:30 (B) 04:40 (C) 11:22 (D) 05:50
8. How many times does the digit '0' appear in the numbers from 1 to 50?  
(A) 3 (B) 4 (C) 5 (D) 6
9. What is the smallest number whose digit sum is 14?  
(A) 25 (B) 77 (C) 59 (D) 68
10. Which number is known as Kaprekar Constant?  
(A) 6172 (B) 6173 (C) 6374 (D) 6174
11. A student is asked to find the favourite subject of students in a class. What is the first step in this process?  
(A) Make a frequency table (B) Assume the most popular subject (C) Collect the raw data (D) Draw a bar graph

**Directions (Q12 - Q15):** A statement of Assertion (A) is followed by a statement of Reason (R). Mark the correct choice as:  
(A) Both A and R are true and R is the correct explanation of A.  
(B) Both A and R are true but R is not the correct explanation of A.

- (C) A is true but R is false.  
(D) A is false but R is true.

**12. Assertion (A):** All cube numbers are odd.

**Reason (R):** Cubes of even numbers are also even.

**13. Assertion (A):** An acute angle can never be greater than a right angle.

**Reason (R):** Acute angles are always less than  $90^\circ$ .

**14. Assertion (A):** In the Collatz sequence, if the starting number is a power of 2, it takes a certain number of steps to reach 1 by repeatedly dividing by 2.

**Reason (R):** Each step divides the number by 2, making it smaller until it reaches 1.

**15. Assertion (A):** In a pictograph, a single symbol can be used to represent a large number of items.

**Reason (R):** This is necessary when the data values are very large, as it prevents the pictograph from becoming cluttered and difficult to read.

### SECTION B (Very Short Answer Questions)

**16.** Write eight multiples of each 3 and 7 and their LCM.

**17.** In a pattern of letters: A, C, E, G, I, ... Which letter will be the 7th in the pattern?

**18.** Write the steps to draw a  $75^\circ$  angle using a protractor. Name the vertex and arms.

**19.** Identify all supercells in the  $3 \times 3$  table:

|      |      |      |
|------|------|------|
| 5600 | 2365 | 5500 |
| 5720 | 6925 | 2537 |
| 9256 | 5540 | 3625 |

**20.** A survey was conducted on the number of books read by 10 students in a month: 4, 2, 5, 3, 4, 1, 5, 4, 2, 3. Arrange the data in ascending order. What is the most common number of books read?

### SECTION C (Short Answer Questions)

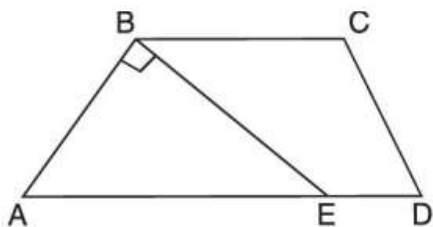
**21.** Multiply by 2, subtract 2. Starting at 6. Find first 6 terms.

**22.** Answer the following:

(i) Write five Virahanka numbers starting from 1.

(ii) Write five triangular numbers starting from 1.

**23.** In the figure label the following angles:



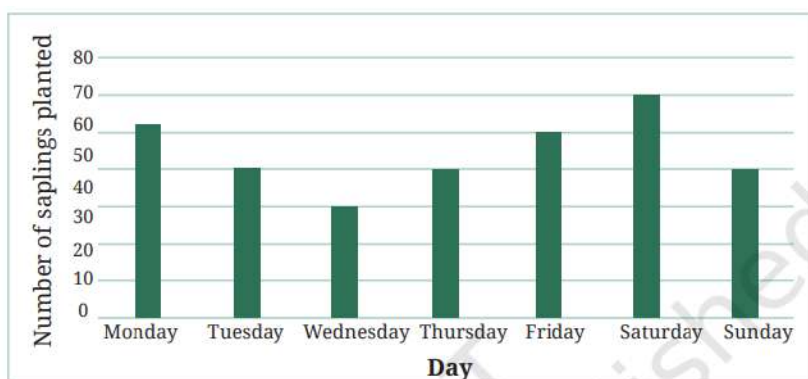
- (a) an acute angle at B
- (b) an acute angle at E
- (c) a right angle
- (d) two obtuse angles
- (e) a straight angle

**24.** Perform the Kaprekar process for 9013 until 6174 is reached. State steps.

### SECTION D (Case Study Based Questions)

#### 25. Case Study 1:

Students and teachers of a primary school decided to plant tree saplings in the school campus and in the surrounding village during the first week of July. Details of the saplings they planted are as follows —



- a) The total number of saplings planted on Wednesday and Thursday is \_\_\_\_\_.
- b) The total number of saplings planted during the whole week is \_\_\_\_\_.
- c) The greatest number of saplings were planted on \_\_\_\_\_, and the least number of saplings were planted on \_\_\_\_\_.
- d) Why do you think that is the case? Why were more saplings planted on certain days of the week and less on others?

#### 26. Case Study 2:

While staring at the old grandfather clock in Grandma's study, Leo waited for her to finish a phone call. The steady ticking was the only sound in the room. Leo noticed the time was exactly 2 O'clock and the hands formed a sharp, acute angle. It was the perfect moment to sneak out and grab a cookie.

- (a) Find the measure of this angle.
- (b) What type of angle is it?
- (c) How will the angle change if the time is 2:30?
- (d) Why do clock hands form different types of angles during the day?

### SECTION E (Long Answer Type Questions)

**27.** Poles are placed along a road as follows:

1st km: 3 poles    2nd km: 6 poles    3rd km: 12 poles    4th: ?    5th: ?

(a) What pattern do the pole numbers follow?

(b) How many poles on 4th km?

(c) How many poles on 5th km?

(d) Total poles in 5 km?

(e) Difference between poles on 5th and 1st km?

**28.** A student is playing with a protractor. He places the centre of the protractor on the vertex of an angle.

(a) The student measures an angle of  $150^\circ$ . What type of angle is this? What is the difference between this angle and a straight angle?

(b) The student then measures an angle of  $30^\circ$ . What type of angle is this? What is the sum of the  $150^\circ$  and  $30^\circ$  angles?

**29.** Pooja collected data on the number of tickets sold at the Bhopal railway station for a few different cities of Madhya Pradesh over a 2-hour period. Number of tickets sold:

Vidisha - 24, Jabalpur - 20, Seoni - 16, Indore - 28, Sagar - 16

She used this data and prepared a bar graph on the board to discuss the data with her students, but someone erased a portion of the graph.



a. Draw the complete bar graph and write the number of tickets sold for Vidisha above the bar.

b. Write the number of tickets sold for Jabalpur above the bar.

c. The bar for Vidisha is 6 unit lengths and the bar for Jabalpur is 5 unit lengths. What is the scale for this graph?

d. Draw the correct bar for Sagar.

10/2026

B

Sanskrit

tu.-52

AK. Anjana

Fr.-V.B. Mishra

शरद कालीन श्रद्धा कार्य

- ① 05 पेज संस्कृत में सुलेख लिखें। संस्कृत VI
- ② 'क्रीड' धातु का लटलकार (वर्तमान काल) में धातुरूप लिखें।
- ③ 'देव' शब्द का ब्रह्मरूप लिखें।
- ④ अपनी पाठ्यपुस्तक से दो संस्कृत श्लोक याद करें।
- ⑤ मानव शरीर का चित्र बनाकर मानव अंगों का नाम लिखें।
- ⑥ पाठ्य पुस्तक से 10 कठिन शब्दों का अर्थ याद करें।



# Autumn Break Homework

Class - VII | English (Poorvi)

Good Books  
Bright  
Holidays  
Better You!

## Chapter 1

### North, South, East, West



- 1 Write the meanings of 10 difficult words from the chapter.
- 2 Write a summary of the chapter in 100-120 words.
- 3 Draw a compass and label the four cardinal directions North, South, East and West.
- 4 Write a paragraph on "Unity in Diversity" in 100-120 words.
- 5 Write five sentences on the importance of knowing directions in daily life.



## Chapter 2

### The Tunnel



- 1 Write the meanings of 10 difficult words from the poem.
- 2 Write a summary of the poem in 100-120 words.
- 3 Write a paragraph on "Courage in Difficult Situations" in 100-120 words.
- 4 Write five lines about what you learned from the poem.
- 5 Make a small illustration related to the poem (tunnel) and write a suitable caption.

"Darkness is only a part of the journey, not the end."

## Chapter 3

### Conquering the Summit



- 1 Write the meanings of 10 difficult words from the chapter.
- 2 Write a summary of the chapter in 100-120 words.
- 3 Write a paragraph on "Where There Is a Will, There Is a Way" in 100-120 words.
- 4 Make a colourful poster on "Never Give Up" with three motivational slogans.
- 5 Write five qualities needed to achieve a goal.

DREAM  
PLAN  
TRY  
ACHIEVE

Small Steps  
Big Success!

# Grammar

## 1 Tenses



- a Define tenses and write the names of the three main tenses with examples.
- b Write the structures and two examples each of the Simple Present, Simple Past and Simple Future tenses.
- c Write five sentences each in the Present Continuous, Past Continuous and Future Continuous tenses.
- d Change the following sentences into the past and future tenses:
  - (i) She writes a letter.
  - (ii) They play football.
  - (iii) He goes to school.
  - (iv) I eat an apple.
  - (v) We watch television.



## 2 Parts of Speech

Write five examples each of nouns, pronouns, adjectives and verbs. Use each example in a sentence.

Noun

Pronoun

Adjective

Verb

## 3 Writing Skills

- 1 Write a diary entry about a memorable day during your autumn break.
- 2 Write a paragraph on "How I Spent My Autumn Break" in 120-150 words.
- 3 Write a letter to your friend describing your plans for the holidays.



## Instructions

- ★ Complete all the work in your English notebook (old notebook or thin notebook).
- ★ Use your own words and handwriting.
- ★ Decorate the first page creatively.
- ★ Revise all three chapters and grammar topics.
- ★ Submit the homework after the autumn break.



# PM SHRI KENDRIYA VIDYALAYA ARA

## HOLIDAY HOMEWORK

Class 7 | Mathematics

15 October to 24 October 2026

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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  $5^{\circ}\text{C}$  and falls by  $3^{\circ}\text{C}$  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:  $4.5 \times 0.2$  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 4: Monday, 19 October

*Percentage, Ratio and Profit and Loss*

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

- 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 5: Wednesday, 21 October

### *Lines, Angles and Triangles*

**Remember:** Angles of a triangle add up to  $180^\circ$ . An exterior angle equals the sum of the two interior opposite angles.

- Q1. **Basics:** Find the complement of  $65^\circ$  and the supplement of  $110^\circ$ .
- Q2. The angles of a triangle are in the ratio 2 : 3 : 4. Find each angle.
- Q3. The exterior angle of a triangle is  $110^\circ$  and one interior opposite angle is  $45^\circ$ . 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 6: 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 7: Friday, 23 October

### *Exponents and Powers*

**Remember:**  $a^m \times a^n = a^{m+n}$ ,  $a^m \div a^n = a^{m-n}$ ,  $(a^m)^n = a^{mn}$ ,  $a^0 = 1$ .

- Q1. **Basics:** Write the squares of 1 to 20 and the cubes of 1 to 10 from memory.
- Q2. Simplify:  $2^3 \times 2^4$ ,  $5^6 \div 5^2$ ,  $(3^2)^3$ .
- Q3. Write 72,000 in standard form and  $3.5 \times 10^4$  in usual form.
- Q4. Evaluate:  $(-2)^5$ ,  $7^0$  and  $(2/3)^3$ .

## Day 8: Saturday, 24 October

### *Data Handling, Probability and Mental Maths*

**Remember:** Mean =  $\text{sum} \div \text{number of observations}$ . Mode is the most frequent value. Median is the middle value in order.

- Q1. **Basics:** Do mentally:  $25 \times 16$ ,  $1000 - 378$ ,  $3/4$  of 80, 15% of 200.
- Q2. Find the mean and median of 12, 15, 18, 20, 25, and the mode of 3, 5, 3, 7, 5, 3, 9.
- Q3. The mean of 5 numbers is 20. Find their sum. If a sixth number 32 is added, find the new mean.
- Q4. A fair die is thrown once. Find the probability of getting an even number and of getting a number less than 3.

*Happy Holidays and Happy Dussehra!*

VII  
संस्कृत

(1) 05 पेज संस्कृत सुलेख लिखें।

(2) 'लाना' नया फल का शब्द रूप लिखकर आइ करे।

(3) 'पठ' नया 'क्रीड' धानु का धानु रूप लानेकार (वर्तमान काल) नया लानेकार भविष्यकाल में लिखकर आइ करे।

(4) 01 से 30 तक संख्यावाची शब्द (गिननी) संस्कृत में लिखकर आइ करे।

(5) पाँच फलों का चित्र बनाकर संस्कृत में उसका नाम लिखें।

**PM SHRI KENDRIYA VIDYALAYA ARA**  
**AUTUMN BREAK HOME WORK (2026-27)**

**Class:** 8A

**Date:** 13-10-2026

**Subject Teacher:** Ravi kumar (TGT SST)

**Subject:** Social science

1. What are the implications of unsustainable use / over-exploitation of natural resources?
2. What might be the different criteria we can use to categorise natural resources?
3. What is the difference between renewable and non-renewable resources?
4. Explain why groundwater depletion is a significant concern in many parts of India, citing the case of Punjab.
5. How did foreign invasions and the rise of new dynasties reshape India's political boundaries during this period?
6. Compare the political strategies of the Delhi Sultanate and the Mughals. What similarities and differences existed between them?
7. What factors contributed to the decline of the Vijayanagara Empire?
8. On the outline map of India show the following.  
(i) Digboi and Ankleshwar oil field (ii) Raniganj and Neyveli coal minerals (iii) Durg and Kudremukh iron ore (iv) Gwalior fort (v) Vijayanagara

**Activities:**

- (i) Imagine you are a scholar in the court of Akbar or Krishnadevaraya. Write a letter to a friend describing the politics, trade, culture and society you are witnessing.
- (ii) Identify cultural practices in your home and neighbourhood that point to mindfulness in the use of natural resources.

# Autumn Break Homework

Class - VIII | English (Poorvi)



## Chapter 1

### Spectacular Wonders



- 1 Write the meanings of 10 difficult words from the chapter.
- 2 Write a summary of the chapter in 120-150 words.
- 3 Write a paragraph on "The Beauty of Nature and Its Importance in Our Life" in 120-150 words.
- 4 Make a colourful poster on "Explore Protect Preserve" (showing nature, mountains, rivers, trees).
- 5 Write five interesting facts about any one natural wonder of the world.

## Chapter 2

### The Cherry Tree



- 1 Write the meanings of 10 difficult words from the chapter.
- 2 Write a summary of the chapter in 120-150 words.
- 3 Write a paragraph on "Kindness, Generosity and Human Relationships" in 120-150 words.
- 4 Make a colourful drawing of a cherry tree and write a few lines about what the tree teaches us.
- 5 Write five values that we can learn from the chapter and explain them in one or two sentences each.

## Grammar

### 1 Tenses

- a Define tenses and write the names of the three main tenses with examples.
- b Write the structures and two examples each of the Simple Present, Simple Past and Simple Future tenses.
- c Write five sentences each in the Present Continuous, Past Continuous and Future Continuous tenses.
- d Change the following sentences into the past and future tenses:
  - (i) She writes a letter.
  - (ii) They play football.
  - (iii) He goes to school.
  - (iv) I eat an apple.
  - (v) We watch television.



### 2 Parts of Speech

Write five examples each of nouns, pronouns, adjectives and verbs. Use each example in a sentence.



### 3 Writing Skills

- 1 Write a diary entry about a memorable day during your autumn break.
- 2 Write a paragraph on "How I Spent My Autumn Break" in 120-150 words.
- 3 Write a letter to your friend describing your plans for the holidays.



## Instructions

- ★ Complete all the work in your English notebook (old notebook or thin notebook).
- ★ Use your own words and handwriting.
- ★ Do the work neatly and in colour.
- ★ Decorate the first page creatively.
- ★ Revise both the chapters and grammar topics.
- ★ Submit the homework after the autumn break.





**PM SHRI KENDRIYA VIDYALAYA ARA**  
**AUTUMN BREAK HOMEWORK (2026-2027)**  
**CLASS - VIII**  
**SUBJECT: MATHS**

**SECTION A**

1. What is the smallest number by which 32 must be multiplied to make it a perfect square?  
(a) 2    (b) 3    (c) 5    (d) 4
2. The value of  $5^{-2}$  is:  
(a) -25    (b)  $1/25$     (c) 25    (d)  $-1/25$
3. If a number is divisible by both 2 and 3, then it must always be divisible by:  
(a) 5    (b) 6    (c) 9    (d) 8
4. The sum of all interior angles of a convex quadrilateral is:  
(a)  $80^\circ$     (b)  $270^\circ$     (c)  $360^\circ$     (d)  $540^\circ$
5. If x and y vary directly with each other, then which of the following is constant?  
(a)  $x \times y$     (b)  $x + y$     (c)  $x / y$     (d)  $x - y$
6. The product of  $(x + 2)$  and  $(x + 3)$  is given by:  
(a)  $x^2 + 5x + 6$     (b)  $x^2 + 6x + 5$     (c)  $x^2 + 5$     (d)  $x^2 + 6$
7. Which of the following is a perfect cube?  
(a) 16    (b) 27    (c) 36    (d) 50
8. The standard form of 0.00007 is:  
(a)  $7 \times 10^{-5}$     (b)  $7 \times 10^5$     (c)  $7 \times 10^{-4}$     (d)  $0.7 \times 10^{-4}$
9. Which of the following numbers are not perfect squares?  
(i) 2032    (ii) 2048    (iii) 1027    (iv) 1089
10. Given  $125^2 = 15625$ , what is the value of  $126^2$ ?  
(i)  $15625 + 126$     (ii)  $15625 + 253$     (iii)  $15625 + 251$     (iv)  $15625 + 51^2$

**Direction for Q11 - Q12:** Choose the correct option:

- (a) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (b) Both (A) and (R) are true but (R) is not the correct explanation of (A).
- (c) (A) is true but (R) is false.
- (d) (A) is false but (R) is true.

**11. Assertion (A):** A rectangle is a regular quadrilateral.

**Reason (R):** All angles of a rectangle are equal to  $90^\circ$ , but all sides are not equal.

**12. Assertion (A):** If 'a' represents a digit, the number 35a is divisible by 3 when  $a = 1$ .

**Reason (R):** A number is divisible by 3 if the sum of its digits is a multiple of 3.

**SECTION B**

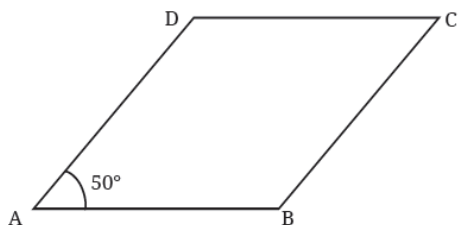
**13.** Find the square root of 784 by the prime factorization method.

**14.** Simplify and write these in the exponential form.

(i)  $9^{-7} \div 9^4$

(ii)  $m^5 n^2 (mn)^9$

**15.** Find the remaining angles in the following parallelogram.



**16.** Expand (i)  $(a - b)(a^2 + ab + b^2)$

**17.** Represent the following numbers in the Egyptian system using given symbols:

|   |      |        |        |        |        |        |        |
|---|------|--------|--------|--------|--------|--------|--------|
| 1 | $10$ | $10^2$ | $10^3$ | $10^4$ | $10^5$ | $10^6$ | $10^7$ |
|   |      |        |        |        |        |        |        |

(i) 324

(ii) 2660

**18.** If  $31z5$  is a multiple of 9, where  $z$  is a digit, what is the value of  $z$ ? Explain why there are two answers to this problem.

## SECTION C

**19.** Find the smallest number by which 250 must be divided so that the quotient becomes a perfect cube. Also, find the cube root of the quotient.

**20.** Express the following numbers in standard form.

(i) 59,853

(ii) 34,30,000

(iii) 70,04,00,00,000

**21.** Draw a quadrilateral whose diagonals have equal lengths of 8 cm that bisect each other, and intersect at an angle of  $30^\circ$ .

**22.** Multiply the binomials  $(2x + 3y)$  and  $(3x - 4y)$  and simplify the expression.

**23.** A car travels 60 km in 1.5 hours. Assuming the speed remains constant, how far will it travel in 4 hours?

**24.** Represent the following numbers in the Roman system.

(i) 1222

(ii) 2999

## SECTION D

**25.** In a parallelogram ABCD, the interior angle  $A = (3x + 10)^\circ$  and angle  $B = (2x - 30)^\circ$ .

(a) Find the value of  $x$ .

(b) Determine the exact measures of all four angles of the parallelogram.

**26.** Compute these products using the suggested identity.

(i)  $51^2$  using Identity 1A for  $(a + b)^2$

(ii)  $397 \times 403$  using Identity 1C for  $(a + b)(a - b)$

(iii)  $91^2$  using Identity 1B for  $(a - b)^2$

### **SECTION E (Case-Study Based)**

**27. Case Study 1:**

An architect is designing a square-shaped courtyard inside a community center building. The area of the square courtyard is calculated to be exactly  $1225 \text{ m}^2$ . The architect plans to place a running track around its boundary fence.

1. What is the length of one side of the square courtyard?
2. Find the total perimeter of the courtyard to determine the length of the fencing required.

**28. Case Study 2:**

Under a STEM educational initiative, a state council distributes identical physics experiment kits to local schools. The distribution follows a strict direct proportional rule based on student registration. If a school with 120 science students receives 24 kits:

1. Determine the constant ratio of kits per student.
2. How many kits will a larger neighboring school with 300 science students receive?
3. If a small rural school receives 6 kits, how many science students are registered there?

- 1 05 पेज संस्कृत सुलेख लिखें।
- (2) देव-शब्द का शब्द रूप लिखकर याद करें।
- (3) पाठ्य पुस्तक से दो संस्कृत का श्लोक लिखकर याद करें।
- (4) 'शम' तथा 'क्रिड' शब्द का धातु रूप लिखकर (वर्तमान में) लिखकर याद करें।
- (5) पाठ्य पुस्तक से किन्हीं 10 कठिन शब्दों का अर्थ लिखकर याद करें।
- (6) किन्हीं पाँच फलों का चित्र बनाकर संस्कृत में उसका नाम लिखें।

# PM SHRI KENDRIYA VIDYALAYA, ARA

## AUTUMN BREAK HOLIDAY HOMEWORK

Subject: Artificial Intelligence (AI) Class: VIII

Student's Name: \_\_\_\_\_

Roll No.: \_\_\_\_\_

### GENERAL INSTRUCTIONS

1. Attempt all questions.
2. Write the answers neatly in your AI notebook.
3. Draw diagrams or system maps wherever necessary.
4. Use suitable examples from your home, school or community.
5. Complete the homework independently.

### SECTION A: MULTIPLE CHOICE QUESTIONS (MCQs)

16 Questions × 1 Mark = 16 Marks

Choose the correct option.

**1. What is the first stage of the AI Project Cycle?**

- a) Evaluation b) Problem Scoping c) Modelling d) Data Exploration

**2. Which stage helps us understand and define the problem?**

- a) Problem Scoping b) Evaluation c) Modelling d) Deployment

**3. What does the 4W Problem Canvas help us identify?**

- a) Only the cost of a project b) Who, What, Where and Why of a problem c) Computer hardware d) Programming languages

**4. In the 4W Problem Canvas, 'Who' refers to:**

- a) The people affected by the problem b) The place where data is stored c) The AI software d) The final model

**5. Which of the following is an example of data acquisition?**

- a) Collecting survey responses b) Deleting all information c) Guessing without evidence d) Drawing a title page

**6. What is the purpose of data exploration?**

- a) To understand patterns and trends in data b) To hide data c) To stop the project d) To change the problem randomly

**7. What does BMI commonly stand for in health-related contexts?**

- a) Body Mass Index b) Basic Machine Input c) Binary Model Indicator d) Body Measurement Internet

**8. Which information is generally used to calculate BMI?**

- a) Height and weight b) Age and favourite colour only c) Name and address d) School and roll number

**9. What is a system?**

- a) A group of connected parts working together b) A single unrelated object only c) A type of keyboard d) A list of random words

**10. Systems thinking encourages us to:**

- a) Look at connections and relationships b) Study each part without any context c) Ignore causes d) Avoid asking questions

**11. What is a system map used for?**

- a) Showing elements and how they are connected b) Typing a paragraph c) Calculating marks only d) Making a password

**12. Which of the following is a Sustainable Development Goal (SDG)?**

- a) Quality Education b) More Plastic Waste c) Less Clean Water d) Increased Inequality

**13. The main aim of the SDGs is to:**

- a) Support a better and more sustainable world b) Increase pollution c) Reduce access to education d) Waste natural resources

**14. Which is an example of a community problem that AI might help address?**

- a) Predicting areas where waste collection is needed
- b) Making littering compulsory
- c) Hiding public information
- d) Increasing water wastage

**15. Why should data used in an AI project be relevant and reliable?**

- a) It can improve the quality of conclusions
- b) It makes results meaningless
- c) It removes the need for checking
- d) It guarantees every prediction is correct

**16. Which practice shows responsible use of data in an AI project?**

- a) Protecting personal information
- b) Sharing private details publicly
- c) Collecting data without a purpose
- d) Ignoring permission and privacy

## **SECTION B: SHORT ANSWER QUESTIONS**

*5 Questions × 2 Marks = 10 Marks*

- 17. What is the AI Project Cycle? Name its main stages.
- 18. What is the 4W Problem Canvas? Write the four Ws.
- 19. Define a system. Give one example of a system from daily life.
- 20. What are Sustainable Development Goals (SDGs)? Name any two SDGs.
- 21. What is a system map? How does it help us understand a problem?

## **SECTION C: LONG ANSWER QUESTIONS**

*4 Questions × 4 Marks = 16 Marks*

- 22. Explain the main stages of the AI Project Cycle and describe the purpose of each stage.
- 23. Explain the 4W Problem Canvas in detail. Use a school-related problem as an example.
- 24. What is systems thinking? Explain how the parts of a system can affect one another, with a suitable example.
- 25. What is BMI (Body Mass Index)? Explain how height and weight are used to calculate it, and mention one limitation of using BMI alone to judge a person's health.

## **SECTION D: COMPETENCY-BASED QUESTIONS**

*2 Questions × 4 Marks = 8 Marks*

### **26. Case Study: Reducing Waste in School**

A school notices that many disposable cups and food wrappers are thrown away every day. The Eco Club wants to use an AI-supported project to understand the problem and suggest ways to reduce waste. Students plan to count the types of waste in different areas and ask classmates about their habits.

- a) Identify one group of people affected by this problem. (1)
- b) Which stage of the AI Project Cycle would help students define the problem clearly? (1)
- c) Suggest two kinds of data the students could collect to understand the problem. (2)

### **27. Case Study: Improving Water Use**

A community wants to reduce water wastage. Residents, schools, gardens and shops all use water. A student creates a system map showing how water use, leaks, awareness and rainfall may be connected. The student also links the project to SDG 6: Clean Water and Sanitation.

- a) What is the purpose of the system map in this case? (1)
- b) Name the SDG mentioned in the case study. (1)
- c) Suggest two actions the community could take to reduce water wastage. (2)

### HOLIDAY LEARNING ACTIVITY

Create a colourful **4W Problem Canvas** on an A4 sheet for one problem in your school or neighbourhood.

Include: Who is affected? What is the problem? Where does it occur? Why should it be solved? Add a small drawing or system map if possible.

*This is an enrichment activity and is not included in the section marks.*

### Best Wishes!

Enjoy your Autumn Break. Think critically, explore real-life problems and use technology responsibly.

**Subject Teacher – Artificial Intelligence**

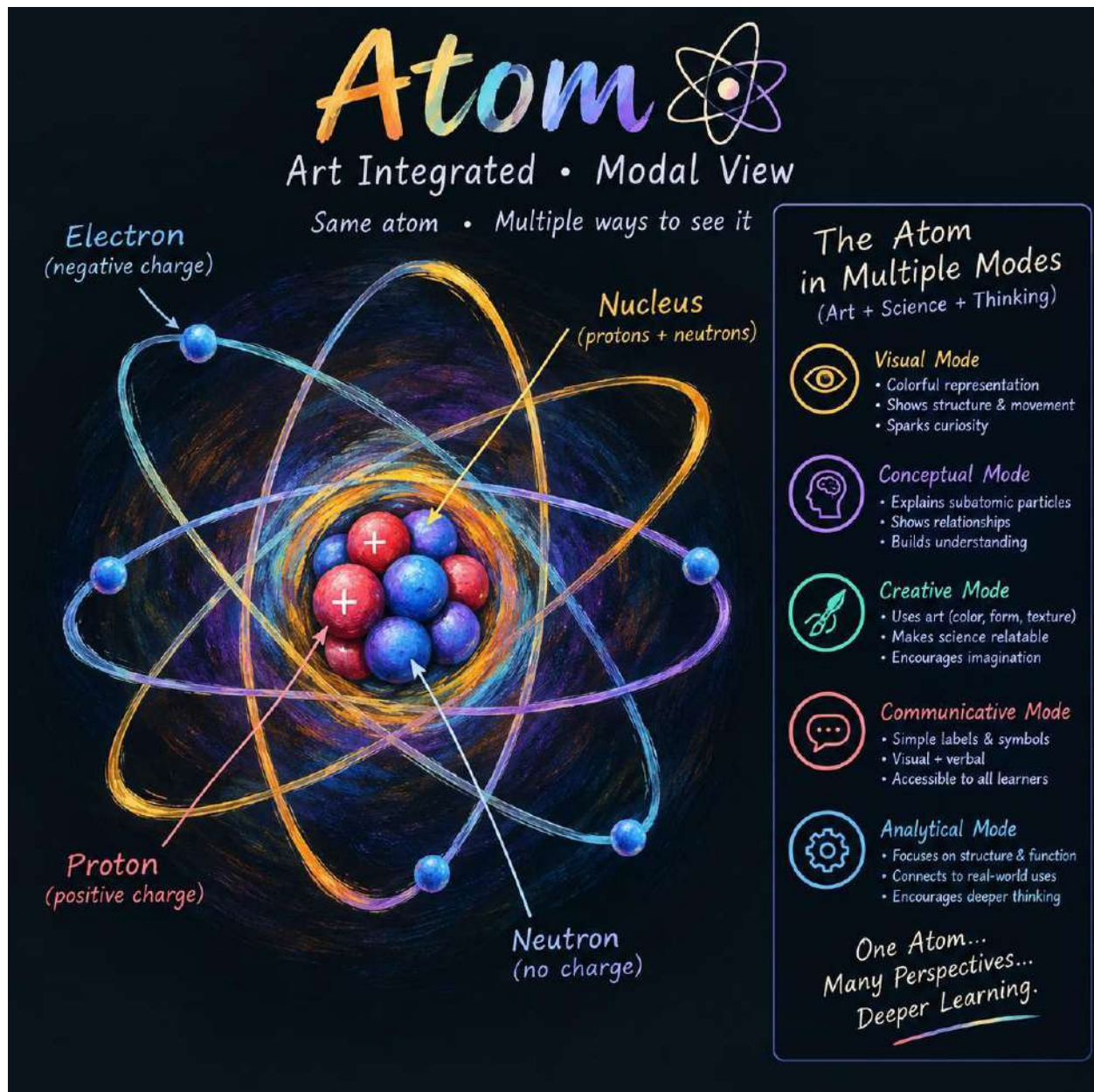
PM SHRI Kendriya Vidyalaya, Ara

PM SHRI KENDRIYA VIDYALAYA ARA

Class 9<sup>th</sup> section A and B

MDP. Art integrated modal of atom. Both 2 D or 3 D

CHART MAKING 5 KINGDOM OF ORGANISM



GENERATE FLASH CARD Physics formula and simple machines in daily life .

NCERT TEXTBOOKS CHAPTER 1 to 6 ACTIVITIES AND EXERCISE QUESTIONS Write In  
SCIENCE NOTE BOOK

# PM SHRI Kendriya Vidyalaya Ara

## Class 9 English Autumn Break Holiday Homework

### General Instructions

- Complete all the work in your **separate English Holiday Homework copy**. Do not use your classwork or notebook copy.
- 

### Section A: Grammar

#### Exercise 1: Reported Speech

Change the following sentences into reported speech.

1. Riya said to her teacher, "I have finished my project."
2. The doctor said to the patient, "Take this medicine twice a day."
3. Rohan said, "I will visit my grandparents tomorrow."
4. The mother said to her son, "Don't play in the sun."
5. Mohit asked Sneha, "Where are you going?"
6. The teacher said to the students, "The earth moves around the sun."
7. Anil said to his friend, "What a lovely garden this is!"
8. The captain said to the players, "Let us win this match."

#### Exercise 2: Subject-Verb Agreement

Fill in the blanks with the correct form of the verb given in brackets.

1. Each of the students \_\_\_\_\_ (have) submitted the assignment.
2. The news of the accident \_\_\_\_\_ (be) shocking.
3. Neither the teacher nor the students \_\_\_\_\_ (was/were) present in the hall.
4. A number of visitors \_\_\_\_\_ (is/are) waiting outside.
5. Mathematics \_\_\_\_\_ (be) my favourite subject.
6. The jury \_\_\_\_\_ (has/have) given its verdict.
7. One of my friends \_\_\_\_\_ (live) in Delhi.
8. Bread and butter \_\_\_\_\_ (be) my usual breakfast.

#### Exercise 3: Modals

Fill in the blanks with suitable modals (can, could, may, might, must, should, would, ought to, need, used to).

1. You \_\_\_\_\_ respect your elders.
2. \_\_\_\_\_ I come in, sir?
3. He \_\_\_\_\_ be at home, as the lights are on.
4. When I was a child, I \_\_\_\_\_ go to the village every summer.
5. You \_\_\_\_\_ not smoke in a public place.
6. She \_\_\_\_\_ swim very well when she was five.
7. If I were you, I \_\_\_\_\_ apologise to him.

8. It \_\_\_\_\_ rain today, so carry an umbrella.

#### Exercise 4: Determiners

Fill in the blanks with suitable determiners (a, an, the, some, any, many, much, few, little, each, every, either, neither, this, that, these, those).

1. There is \_\_\_\_\_ milk left in the glass, so we cannot make tea.
  2. \_\_\_\_\_ of the two roads leads to the market. You can take either one.
  3. \_\_\_\_\_ student of the class has to wear the uniform.
  4. He has \_\_\_\_\_ friends, so he feels lonely.
  5. I saw \_\_\_\_\_ elephant in the zoo. \_\_\_\_\_ elephant was huge.
  6. Do you have \_\_\_\_\_ questions about the lesson?
  7. \_\_\_\_\_ books on the shelf belong to my sister.
  8. How \_\_\_\_\_ money do you need for the trip?
- 

### Section B: Writing Skills

#### Question 1: Letter to the Editor

You are Ananya/Aman of Class 9, residing at Kendriya Vidyalaya Ara. Your locality has been suffering from the problem of **garbage piling up on the roadside and irregular waste collection**, which is causing health hazards. Write a letter to the Editor of a national daily, expressing your concern and suggesting ways to solve the problem. (Word limit: 120 words)

#### Question 2: Notice Writing

Your school is organising an **Inter-House Book Fair and Reading Week** from 20th to 25th November in the school auditorium. As the Head Boy/Head Girl of PM SHRI Kendriya Vidyalaya Ara, write a notice for the school notice board inviting students to participate. (Word limit: 50 words)

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*Wishing you all a happy and safe Autumn Break!*

**शरदकालीन अवकाश गृहकार्य - सत्र 2026-27**

**कक्षा: नवीं**

**विषय: हिंदी (A)**

1. 'आखिरी चट्टान' और 'रीढ़ की हड्डी' पाठ का अध्ययन करें और दोनों पाठों से 5-5 लघु-उत्तरीय प्रश्न तैयार करके लिखें।
2. उपरोक्त दोनों पाठों का लगभग 100-100 शब्दों में सारांश लिखिए।
3. एक अपठित गद्यांश और एक अपठित काव्यांश का अभ्यास कीजिए तथा उस पर आधारित सभी प्रश्नों को हल करके लिखें।
4. 'अनुप्रास, यमक, श्लेष' अलंकार की परिभाषा एवं 5-5 उदाहरण लिखें।
5. अपने मित्र को शरदकालीन अवकाश में पढ़ाई के साथ-साथ रचनात्मक गतिविधियों में भाग लेने की सलाह देते हुए एक पत्र लिखिए।
6. भारतीय शास्त्रीय संगीत परम्परा की महान विभूतियों का जीवन परिचय देते हुए चित्र सहित एक परियोजना कार्य तैयार कीजिए।

# PM SHRI KENDRIYA VIDYALAYA ARA

## HOLIDAY HOMEWORK

Class 9 | Mathematics

15 October to 24 October 2026

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Name: \_\_\_\_\_ Section: \_\_\_\_\_ Roll No.: \_\_\_\_\_

**Instructions:** Attempt 4 questions each day, in the order given. Write neatly in your notebook, show all steps, and draw graphs and figures on graph paper or with a ruler and pencil.

### Day 1: Thursday, 15 October

*Chapter 1: Orienting Yourself: The Use of Coordinates*

- Q1. Plot A(3, 2), B(-2, 4), C(-4, -3), D(5, -1) and state the quadrant of each.
- Q2. (2, 3), (2, -4) and (-5, -4) are three vertices of a rectangle. Find the fourth vertex and the area.
- Q3. Write the coordinates of (a) a point on the x-axis 5 units left of the origin, (b) a point on the y-axis 3 units below the origin.
- Q4. Plot (1, 1), (4, 1), (4, 5), join them and find the area of the triangle. Then write the coordinates of the reflection of each vertex in the x-axis.

### Day 2: Friday, 16 October

*Chapter 2: Introduction to Linear Polynomials*

- Q1. Find the zero of  $p(x) = 3x - 7$  and of  $q(x) = 5x + 2$ .
- Q2. Solve:  $2(x - 3) + 5 = 3x - 4$ .
- Q3. The cost of 3 pens and 2 notebooks is ₹70. Write a linear equation in two variables and find three solutions.
- Q4. Draw the graph of  $y = 2x - 1$  using a table of values. Does (2, -3) lie on the line  $3x + 2y = 0$ ?

### Day 3: Saturday, 17 October

*Chapter 3: The World of Numbers*

- Q1. Classify as rational or irrational:  $\sqrt{49}$ ,  $\sqrt{20}$ , 0.101001000...,  $22/7$ ,  $\pi$ .
- Q2. Express 0.363636... (0.36 repeating) in the form  $p/q$ .
- Q3. Find two rational and one irrational number between 2 and 3.
- Q4. Simplify  $(3 + \sqrt{2})(3 - \sqrt{2})$ , and rationalise  $1/(\sqrt{5} + \sqrt{3})$ .

### Day 4: Monday, 19 October

*Chapter 4: Exploring Algebraic Identities*

- Q1. Expand  $(2x + 3y)^2$  and  $(x - 1/x)^2$ .
- Q2. Using identities, evaluate  $103 \times 97$  and  $102^2$ .
- Q3. If  $x + 1/x = 5$ , find  $x^2 + 1/x^2$ .
- Q4. Factorise  $27a^3 - 64b^3$ .

### Day 5: Wednesday, 21 October

*Chapter 5: I'm Up and Down, and Round and Round (Circles)*

- Q1. Define radius, diameter, chord, arc, secant and tangent. Draw a circle and label each one.
- Q2. A chord of length 16 cm is 6 cm from the centre of a circle. Find the radius.

- Q3.** The radius of a circle is 13 cm and a chord is 24 cm long. Find the distance of the chord from the centre.
- Q4.** In a circle with centre O, the angle subtended by arc AB at the centre is  $100^\circ$ . Find the angle subtended by the same arc at a point on the remaining part of the circle, and the angle in a semicircle.

### **Day 6: Thursday, 22 October**

*Chapter 6: Measuring Space: Perimeter and Area*

- Q1.** A rectangle's perimeter is 40 cm and its length is twice its breadth. Find its area.
- Q2.** Find the area of a triangle with sides 13 cm, 14 cm, 15 cm (Heron's formula), and the height on the 14 cm side.
- Q3.** The circumference of a circle is 44 cm. Find its area ( $\pi = 22/7$ ).
- Q4.** A 2 m wide path runs around the outside of a  $30\text{ m} \times 20\text{ m}$  garden. Find the area of the path and its cost at ₹15 per  $\text{m}^2$ .

### **Day 7: Friday, 23 October**

*Chapter 7: The Mathematics of Maybe: Introduction to Probability*

- Q1.** A coin is tossed 500 times and shows heads 280 times. Find the experimental probability of heads and of tails.
- Q2.** A fair die is rolled. Find  $P(\text{prime number})$ ,  $P(\text{number greater than 4})$ ,  $P(\text{not 6})$ .
- Q3.** A bag has 5 red, 3 blue and 2 green balls. Find the probability of drawing each colour and verify the probabilities add up to 1.
- Q4.** In a class of 40 students, 8 are left-handed. If one student is chosen at random, what is the probability the student is not left-handed?

### **Day 8: Saturday, 24 October**

*Chapter 8: Predicting What Comes Next: Exploring Sequences and Progressions*

- Q1.** Find the next three terms: (a) 3, 7, 11, 15... (b) 2, 6, 18, 54... (c) 1, 4, 9, 16...
- Q2.** An AP has first term 5 and common difference 3. Find its 20th term and the sum of the first 20 terms.
- Q3.** Which term of the AP 2, 9, 16, ... is 100?
- Q4.** Ria saves ₹10 in week 1 and increases her saving by ₹5 each week. How much does she save in week 12, and how much in total over 12 weeks?

— Happy Holidays and Happy Dussehra! —

## शारदकालीन अवकाश गृहकार्य

classmate

Date \_\_\_\_\_

Page \_\_\_\_\_

### IX संस्कृत

- (1) 05 पेज चुनकर लिखें।
- (2) 'कीड' तथा 'गम' धातु का धातुरूप वर्तमान काल (लटलकार) तथा भविष्यकाल (लृटलकार) में लिखकर भाद करें।
- (3) 01 से 50 तक संख्यावाची शब्द (विभक्ति) को लिखकर भाद करें।
- (4) संस्कृत का दो श्लोक अपने पाठ्यपुस्तक में लिखकर भाद करें।
- (5) 10 कवि शब्द अपने पाठ्यपुस्तक में लिखकर भाद करें।
- (6) 05 फलों का चित्र बनाकर संस्कृत में इसका नाम लिखें।

# PM SHRI KENDRIYA VIDYALAYA, ARA

## AUTUMN BREAK HOLIDAY HOMEWORK

Subject: Artificial Intelligence (AI) Class: IX

Student's Name: \_\_\_\_\_

Roll No.: \_\_\_\_\_

### GENERAL INSTRUCTIONS

1. Attempt all questions.
2. Write answers neatly in your AI notebook.
3. This homework covers Employability Skills and Subject Specific Skills.
4. Use suitable real-life examples wherever possible.
5. Complete the work independently.

### SECTION A: MULTIPLE CHOICE QUESTIONS (MCQs)

16 Questions × 1 Mark = 16 Marks

Choose the correct option.

**1. Which of the following is an example of effective communication?**

- a) Listening carefully and responding clearly   b) Interrupting everyone   c) Ignoring instructions   d) Spreading rumours

**2. Which is a positive self-management skill?**

- a) Setting goals and managing time   b) Avoiding all responsibilities   c) Delaying every task   d) Blaming others

**3. Which of these is a safe ICT practice?**

- a) Sharing your password with everyone   b) Using strong passwords and keeping them private   c) Opening every unknown link   d) Posting personal details publicly

**4. What does Artificial Intelligence (AI) enable computers to do?**

- a) Perform tasks that may require human-like intelligence   b) Work without any instructions or data in every situation   c) Always make perfect decisions   d) Feel emotions exactly like humans

**5. Which AI domain helps computers understand text and speech?**

- a) Computer Vision   b) Natural Language Processing   c) Data Entry   d) Hardware Design

**6. Which AI domain is used to identify objects in images?**

- a) Computer Vision   b) Natural Language Processing   c) Word Processing   d) Email Management

**7. What is the first stage of the AI Project Cycle?**

- a) Evaluation   b) Problem Scoping   c) Modelling   d) Deployment

**8. What is the purpose of Problem Scoping?**

- a) To understand and define the problem   b) To draw charts only   c) To ignore stakeholders   d) To choose an answer without evidence

**9. Data literacy is the ability to:**

- a) Read, understand, analyse and communicate using data   b) Memorise numbers without understanding   c) Delete all data   d) Avoid evidence

**10. Which of the following is an example of data visualization?**

- a) Presenting survey results in a bar chart   b) Keeping numbers in an unreadable list   c) Guessing results   d) Removing labels from a graph

**11. Which chart is often useful for comparing values across categories?**

- a) Bar chart   b) Password list   c) Paragraph   d) Audio recording

**12. Why should data be checked before analysis?**

- a) To identify errors, missing values or inconsistencies   b) To make the data less reliable   c) To guarantee a perfect AI model   d) To avoid understanding the problem

**13. Which of the following is an AI ethics concern?**

- a) Bias and unfair treatment   b) Using a clear chart title   c) Saving work regularly   d) Organising files into folders

**14. What does data privacy mean?**

- a) Protecting personal information and controlling how it is used   b) Publishing all personal details   c) Sharing passwords openly   d) Collecting data secretly

**15. Why should AI-generated answers be checked?**

- a) They may be incorrect, incomplete or biased   b) They are always correct   c) They never use data   d) They cannot contain errors

**16. Which action demonstrates responsible use of AI?**

- a) Checking facts and respecting privacy   b) Copying answers without understanding   c) Sharing another person's data without permission   d) Using AI to spread misinformation

**SECTION B: SHORT ANSWER QUESTIONS**

*5 Questions × 2 Marks = 10 Marks*

17. Write any two effective communication skills that are useful for students.
18. What is the AI Project Cycle? Name its main stages.
19. Define data literacy. Mention two skills involved in working with data.
20. Name any two AI domains and give one example of each.
21. What is AI ethics? Write any two ethical principles for using AI responsibly.

**SECTION C: LONG ANSWER QUESTIONS**

*4 Questions × 4 Marks = 16 Marks*

22. Explain the main stages of the AI Project Cycle: Problem Scoping, Data Acquisition, Data Exploration, Modelling and Evaluation.
23. Explain the three major AI domains—Data Science, Computer Vision and Natural Language Processing—with suitable examples.
24. What is data visualization? Explain any four good practices for presenting data clearly, such as choosing a suitable chart, using labels, adding a title and avoiding misleading scales.
25. Explain four AI ethics concerns, such as fairness, privacy, transparency and accountability. Give one example of how students can use AI responsibly.

**SECTION D: COMPETENCY-BASED QUESTIONS**

*2 Questions × 4 Marks = 8 Marks*

**26. Case Study: Using Data to Improve the School Library**

A school library asks students which types of books they prefer. The librarian collects 120 responses and records them in a spreadsheet. The students make a bar chart to show the most popular categories. An AI tool suggests buying more books from the most popular category, but some responses are missing and most responses came from one class only.

- a) Identify one example of data collected by the library. (1)
- b) Why is a bar chart suitable for these responses? (1)
- c) State two checks the librarian should make before using the results to make a decision. (2)

**27. Case Study: Responsible Use of an AI Study Assistant**

A student uses an AI study assistant to prepare a presentation. The tool creates a summary and a chart, but one fact in the summary is incorrect. The student is also thinking of uploading a class list containing students' names, phone numbers and marks to get personalised suggestions.

- a) What should the student do before using the AI-generated fact in the presentation? (1)
- b) Name one AI ethics principle relevant to this situation. (1)
- c) Give two reasons why uploading the class list may be unsafe, and suggest a safer approach. (2)

**HOLIDAY LEARNING ACTIVITY**

Prepare an A4 infographic titled **"Use Data and AI Responsibly"**.

Include: one example of an AI domain; a simple bar chart or pie chart using small sample data; two AI ethics rules; and one employability skill (communication, self-management or ICT safety) that helps you complete the task.

*This is an enrichment activity and is not included in the question marks.*

**Best Wishes!**

**PM SHRI KENDRIYA VIDYALAYA ARA**

**Autumn break home work (2026-27)**

**Class:-10 A**

**Date:- 13-10-2026**

**Subject Teacher:- Ravi Kumar (TGT SST)**

**Subject:- social science**

- 1.What may be development for one may not be development for the other. It may even be destructive for other. Give one example.**
- 2.Why is the tertiary sector becoming so important in India? Give at least four reasons.**
- 3.Briefly explain the process of unification of Italy.**
- 4.What was the impact of the First World War on India**
- 5.Mention any four steps which were taken by the Sri Lankan government to achieve majoritarianism.**
- 6.Explain the major key features of federalism.**
- 7.Which geographical factors are responsible for the evolution of black soil? Why is it considered the most suitable for growing cotton?**
- 8.Who proclaimed the dams as the temples of modern India Give reason.**
- 9.Describe various technological and institutional reforms which led to the Green and White Revolution in India.**
- 10.How many types of forests are classified in India? Explain.**
- 11.on the outline map of india show the following.**

**(i) 1920 Calcutta and 1927 Madras Congress sessions (ii) Jallianwala Bagh (iii) Champaran Satyagraha movements (iv) Hiraakund Dam (v) Sardar Sarovar Dam**

**Activities:-**

- (i) Talk to someone who has a regular job in the organised sector and another who works in the unorganised sector. Compare and contrast their working conditions in all aspects.**
- (ii) Imagine that you are the village head. In that capacity suggest some activities that you think should be taken up under this MNREGA Act that would also increase the income of people?**

**PM SHRI Kendriya Vidyalaya Ara**  
**Autumn Break Holiday Homework**  
**Class X – English**

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**PART A: Integrated Grammar Practice (20 Questions)**

**Q1–8. Choose the most appropriate option to fill in each blank.**

1. The Principal said that the school \_\_\_\_\_ remain closed on Monday.  
(a) will (b) would (c) shall (d) can
2. Neither of the two answers \_\_\_\_\_ correct.  
(a) are (b) were (c) is (d) have
3. \_\_\_\_\_ honest person is respected everywhere.  
(a) A (b) An (c) The (d) Some
4. She has been learning music \_\_\_\_\_ 2019.  
(a) for (b) since (c) from (d) during
5. If I \_\_\_\_\_ you, I would apologise to him at once.  
(a) am (b) was (c) were (d) will be
6. The train \_\_\_\_\_ before we reached the station.  
(a) left (b) has left (c) had left (d) leaves
7. He worked hard \_\_\_\_\_ he could top the examination.  
(a) because (b) so that (c) unless (d) although
8. There is \_\_\_\_\_ milk left in the jug, so we cannot make tea.  
(a) few (b) many (c) little (d) a few

**Q9–16. Each of the following sentences has ONE error. Identify the error and write the correction.**

| Q. No. | Sentence                                          | Error | Correction |
|--------|---------------------------------------------------|-------|------------|
| 9      | Each of the students have submitted the project.  |       |            |
| 10     | She is more taller than her sister.               |       |            |
| 11     | He did not knew the answer to the question.       |       |            |
| 12     | The teacher gave us some advices.                 |       |            |
| 13     | I am looking forward to meet you.                 |       |            |
| 14     | Rohan along with his friends are going on a trip. |       |            |
| 15     | Although he was tired, but he continued to work.  |       |            |
| 16     | We reached to the station on time.                |       |            |

**Q17–20. Report the following sentences.**

17. The teacher said to Ravi, "Why are you late today?"
18. Mother said to me, "Please help me in the kitchen."

19. Aman said, "I will visit my grandparents next week."

20. She said, "Alas! I have lost my wallet."

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## **PART B: Letter to the Editor (Writing Skills)**

### **Letter 1: Environment**

The air quality in your city worsens every year after Diwali because of firecrackers and stubble burning. You are Aman/Anita, a resident of Ara. Write a letter to the Editor of a national daily expressing your concern and suggesting ways to control air pollution.

### **Letter 2: Social Issue**

Teenagers are spending too many hours on mobile phones and social media, harming their studies, sleep and health. You are Sameer/Sneha, a concerned student from 12 Patel Nagar, Ahmedabad. Write a letter to the Editor of a national daily highlighting this problem and suggesting how parents, schools and students can address it.

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## **PART C: CBSE Sample Paper Practice (2026–27)**

### **Instructions for students:**

1. Download the **CBSE Sample Question Paper 2026–27 for Class X, English Language and Literature (Code 184)** from the official CBSE Academic website ([cbseacademic.nic.in](https://cbseacademic.nic.in)).
  2. Solve the complete paper in your English notebook.
  3. Strictly follow the word limits and the format for the Reading, Writing, Grammar and Literature section.
  4. Do Part A and B also in your English notebook.
- 

*Wishing all students a happy and safe Autumn Break!*

**शरदकालीन अवकाश गृहकार्य - सत्र 2026-27**

**कक्षा: दसवीं**

**विषय: हिंदी (A)**

1. अब तक पढ़ाए गए सभी पाठों से एक - एक महत्वपूर्ण प्रश्न लिखकर तैयार करें।
2. एक अपठित गद्यांश और एक अपठित काव्यांश का अभ्यास कीजिए तथा उस पर आधारित सभी प्रश्नों को हल करके लिखें।
3. विभिन्न नौकरियों के आवेदन हेतु दो स्ववृत्त लिखिए।
4. निम्नलिखित में से किसी दो विषयों पर लगभग 120 शब्दों में अनुच्छेद लिखिए।
  - (i) पर्यावरण संरक्षण में विद्यार्थियों की भूमिका
  - (ii) सोशल मीडिया : लाभ और हानि
  - (iii) समय का सदुपयोग
  - (iv) स्वच्छ भारत, स्वस्थ भारत
5. निम्नलिखित में से किसी एक विषय पर लगभग 100 शब्दों में पत्र लिखिए।
  - (i) अपने क्षेत्र में बढ़ती गंदगी की समस्या की ओर ध्यान आकर्षित करते हुए नगर निगम के अधिकारी को पत्र लिखिए।
  - (ii) अपने मित्र को बोर्ड परीक्षा की तैयारी के लिए प्रेरित करते हुए पत्र लिखिए।
6. उत्तराखंड राज्य की संस्कृति, वेशभूषा, खान- पान, त्योहार, नृत्य आदि पर चित्र सहित एक परियोजना कार्य बनाएं।



**PM SHRI KENDRIYA VIDYALAYA ARA**  
**AUTUMN BREAK HOMEWORK (2026-2027)**

**CLASS - X**  
**SUBJECT: MATHS**

**SECTION A**

1. The distance of the point P(4, -3) from the origin is  
(a) 1 unit (b) 7 units (c) 5 units (d) 3 units
2. The value of  $(\sin 30^\circ + \cos 30^\circ) - (\sin 60^\circ + \cos 60^\circ)$  is  
(a) -1 (b) 0 (c) 1 (d) 2
3. Find the length of tangent drawn to a circle with radius 7 cm from a point 25 cm away from the centre.  
(a) 24 cm (b) 27 cm (c) 26 cm (d) 25 cm
4. If the perimeter of a circle is equal to that of a square, then the ratio of their areas is  
(a) 22 : 7 (b) 14 : 11 (c) 7 : 22 (d) 11 : 14
5. If two cubes, each of edge 4 cm are joined end to end, then the surface area of the resulting cuboid is  
(a)  $100 \text{ cm}^2$  (b)  $160 \text{ cm}^2$  (c)  $200 \text{ cm}^2$  (d)  $80 \text{ cm}^2$
6. Point on y - axis has coordinates:  
(a) (-a, b) (b) (a, 0) (c) (0, b) (d) (-a, -b)
7. If  $\sin A + \sin^2 A = 1$ , then the value of the expression  $(\cos^2 A + \cos^4 A)$  is  
(a) 1 (b)  $1/2$  (c) 2 (d) 3
8. If tangents PA and PB from a point P to a circle with centre O are inclined to each other at angle of  $80^\circ$ , then  $\angle POA$  is equal to  
(a)  $60^\circ$  (b)  $70^\circ$  (c)  $80^\circ$  (d)  $50^\circ$
9. If the area of a circle is  $154 \text{ cm}^2$ , then its perimeter is  
(a) 11 cm (b) 22 cm (c) 44 cm (d) 55 cm
10. The height of a cylinder is 14 cm and its curved surface area is  $264 \text{ cm}^2$ . The volume of the cylinder is  
(a)  $296 \text{ cm}^3$  (b)  $396 \text{ cm}^3$  (c)  $369 \text{ cm}^3$  (d)  $503 \text{ cm}^3$

**SECTION B**

11. Find the coordinates of the point which divides the join of (-1, 7) and (4, -3) in the ratio 2 : 3.
12. The angle of elevation of the top of a tower from a point on the ground, which is 30 m away from the foot of the tower, is  $30^\circ$ . Find the height of the tower.
13. Prove that the lengths of the two tangents from an external point to a circle are equal.

- 14.** The length of the minute hand of a clock is 14 cm. Find the area swept by the minute hand in 5 minutes.
- 15.** If  $\tan (A - B) = 1/\sqrt{3}$  and  $\tan (A + B) = \sqrt{3}$ , then find the value of A and B.

### SECTION C

- 16.** If (1, 2), (4, y), (x, 6) and (3, 5) are the vertices of a parallelogram taken in order, find x and y.
- 17.** Prove that:

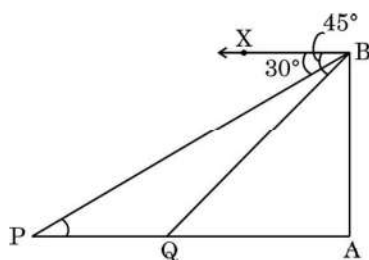
**Prove that:** 
$$\frac{\cos A - \sin A + 1}{\cos A + \sin A - 1} = \operatorname{cosec} A + \cot A$$

- 18.** A quadrilateral ABCD is drawn to circumscribe a circle. Prove that  $AB + CD = AD + BC$
- 19.** A brooch is made with silver wire in the form of a circle with diameter 35 mm. The wire is also used in making 5 diameters which divide the circle into 10 equal sectors. Find:
- the total length of the silver wire required.
  - the area of each sector of the brooch.

### SECTION D

#### 20. Case Study 1: (Application of Trigonometry)

A lighthouse stands tall on a cliff by the sea, watching over ships that pass by. One day a ship is seen approaching the shore and from the top of the lighthouse, the angles of depression of the ship are observed to be  $30^\circ$  and  $45^\circ$  as it moves from point P to point Q. The height of the lighthouse is 50 metres.

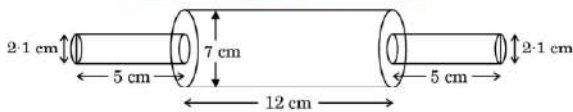


Based on the information given above, answer the following questions:

- Find the distance of the ship from the base of the lighthouse when it is at point Q, where the angle of depression is  $45^\circ$ .
- Find the measures of  $\angle PBA$  and  $\angle QBA$ .
- Find the distance travelled by the ship between points P and Q.

## 21. Case Study 2: (Surface area and volume)

A skilled carpenter decided to craft a special rolling pin for the local baker. He carefully joined three cylindrical pieces of wood – two small ones on the ends and one larger in the centre – to create a perfect tool. The baker loved the rolling pin, as it rolled out the smoothest dough for breads and pastries. The length of the bigger cylindrical part is 12 cm and diameter is 7 cm and the length of each smaller cylindrical part is 5 cm and diameter is 2.1 cm.



Based on the above information, answer the following questions:

- Find the volume of the bigger cylindrical part.
- Find the curved surface area of the bigger cylindrical part.
- Find the sum of the curved surface areas of the two identical smaller cylindrical parts.

**PM SHRI KENDRIYA VIDYALAYA, ARA**  
**AUTUMN BREAK HOLIDAY HOMEWORK**  
**SUBJECT: ARTIFICIAL INTELLIGENCE | CLASS: X**

Student's Name: \_\_\_\_\_

Roll No.: \_\_\_\_\_

**GENERAL INSTRUCTIONS**

- Attempt all questions neatly in your AI notebook.
- Write answers in your own words and give examples.
- Draw labelled diagrams or tables wherever required.
- Complete the holiday activity and submit it after the break.

**SECTION A — MULTIPLE-CHOICE QUESTIONS (16 × 1 = 16)**

**1. Which stage identifies the problem and stakeholders?**

- a) Modelling   b) Problem Scoping   c) Evaluation   d) Deployment

**2. In the 4W Canvas, "Who" identifies:**

- a) People affected   b) Computer brand   c) Cost only   d) Final score

**3. Data collected directly through a survey is:**

- a) Primary data   b) Secondary data   c) Fake data   d) Output

**4. Data exploration helps us to:**

- a) Find patterns and issues   b) Delete all records   c) Hide results   d) Switch off a model

**5. Data preprocessing means:**

- a) Cleaning and preparing data   b) Decorating a screen   c) Increasing file size   d) Removing all data

**6. Machine Learning learns patterns from:**

- a) Data   b) Furniture   c) Wires only   d) Paper

**7. Deep Learning commonly uses:**

- a) Multi-layer neural networks   b) Only written rules   c) A calculator alone   d) No data

**8. In a neural network, weights determine:**

- a) Strength of connections   b) Screen brightness   c) File names   d) Keyboard layout

**9. A confusion matrix evaluates:**

- a) Classification models   b) Monitor size   c) Internet speed   d) Word processing

**10. A True Positive (TP) is when:**

- a) Predicted positive, actually positive   b) Predicted negative, actually positive   c) Predicted positive, actually negative   d) Both negative

**11. A False Positive (FP) is when:**

- a) Predicted positive, actually negative   b) Predicted negative, actually positive   c) Correct positive   d) Correct negative

**12. Which domain interprets images?**

- a) Computer Vision   b) NLP   c) Word processing   d) Formatting

**13. NLP works mainly with:**

- a) Human language   b) Images only   c) Engine repair   d) Weather tools

**14. Generative AI can:**

- a) Create new content   b) Only sort files   c) Only follow fixed timetables   d) Only print

**15. An ethical AI concern is:**

- a) Bias in decisions   b) Font size   c) Screen colour   d) Keyboard type

**16. Data privacy means:**

- a) Protecting personal information   b) Sharing passwords   c) Publishing all records   d) Removing security

**PM SHRI KENDRIYA VIDYALAYA, ARA**  
**AUTUMN BREAK HOLIDAY HOMEWORK — CLASS X**  
**SUBJECT: ARTIFICIAL INTELLIGENCE**

**SECTION B — SHORT-ANSWER QUESTIONS (5 × 2 = 10)**

17. What is the AI Project Cycle? Name its main stages.
18. Differentiate between AI, Machine Learning and Deep Learning.
19. Define data preprocessing. Mention any two preprocessing tasks.
20. Explain TP, FP, TN and FN in a confusion matrix.
21. Write two differences between Generative AI and Conventional AI.

**SECTION C — LONG-ANSWER QUESTIONS (4 × 4 = 16)**

22. Explain Problem Scoping and how the 4W Problem Canvas helps define an AI problem.
23. Explain Data Acquisition, Data Exploration and Data Preprocessing with examples.
24. Describe neural networks and the role of weights. Explain how a confusion matrix helps evaluate an AI model.
25. Explain AI ethics with reference to fairness, privacy, transparency and accountability. Give an example.

**SECTION D — COMPETENCY-BASED QUESTIONS (2 × 4 = 8)**

- 26. AI Health Screening:** An AI model checks medical images. It correctly identifies 16 positive cases, and wrongly marks 10 negative cases as positive.  
a) Identify TP. (1) b) Identify FP. (1) c) If 20 cases were actually positive, how many positive cases were missed (FN)? Show calculation. (2)
- 27. Responsible Generative AI:** A student uses generative AI for a project. It gives an incorrect fact and asks for personal details.  
a) State one risk of using the answer without checking. (1) b) Identify one privacy concern. (1) c) Write two steps for responsible use. (2)

**HOLIDAY ACTIVITY — LEARN BY DOING**

**Topic: Design an AI Solution**

Prepare a 2-page project file on an everyday problem AI could help solve (e.g., waste segregation, traffic or school energy saving).

- Define the problem using the 4W Problem Canvas.
- Identify the data needed and how it can be collected.
- Suggest a suitable AI domain/model and explain why.
- Mention one ethical concern and how to reduce the risk. Add a diagram or flowchart.

**Think critically • Check AI-generated information • Protect personal data**

## शारद कालीन अवकाश गृहकार्य - कक्षा - 11

- 1) रचनात्मक लेखन किन्हीं तीन समासामयिक विषयों पर रचनात्मक लेखन करें।
- 2) पत्र लेखन - औपचारिक पत्र लेखन  
औपचारिक पत्र के स्वरूप को समझते हुए कोई तीन औपचारिक पत्र लेखन करें।
- 3) अभिव्यक्ति और माध्यम के पाठों को लिखकर  
थाप करें।
- 4) अपने सबसे रुचिकर पाठ पर परियोजना कार्य  
तैयार करें।

## शरद कालीन अवकाश गृहकार्य ~ कक्षा - 12

1) रचनात्मक लेखन किन्हीं तीन समसामयिक विषयों पर रचनात्मक लेखन करें।

2) पत्र लेखन - औपचारिक पत्र लेखन  
औपचारिक पत्र के स्वरूप को समझते हुए कोई तीन औपचारिक पत्र लेखन करें।

3) अभिव्यक्ति और माध्यम के पाठों को लिखकर याद करें।

4) अपने सबसे रुचिकर पाठ पर परियोजना कार्य तैयार करें।

PM SHRI KENDRIYA VIDYALAYA ARA

Class 10th Section A and B Autumn break home Work

Write the answer of NCERT TEXTBOOK SCIENCE activities and in text question of chapter

1.chemical reaction equation

2 Acids bases and salts

3 Metals and non metals

4 Carbon and it's compounds

5 Life processes

6 Control and coordination

7 Reproduction in organism

8 Heredity

9 Our Environment

10 Eye and colourful World

Practical writing to given Aim

Solve given Sample papers 2026-2027 and given previous year question paper.

**PM SHRI KENDRIYA VIDYALAYA, ARA**  
**AUTUMN BREAK HOLIDAY HOMEWORK**  
**SUBJECT: ARTIFICIAL INTELLIGENCE | CLASS: VII**

Student's Name: \_\_\_\_\_

Roll No.: \_\_\_\_\_

**GENERAL INSTRUCTIONS**

- 1. Attempt all questions neatly in your AI notebook.
- 2. For MCQs, write the correct option and answer.
- 3. Use examples from daily life wherever possible.
- 4. Complete the holiday activity and submit it after the break.

**SECTION A — MULTIPLE-CHOICE QUESTIONS (16 × 1 = 16)**

**1. Artificial Intelligence (AI) helps computers to:**

- a) Only store files   b) Perform tasks that need human-like intelligence   c) Print paper only   d) Switch off electricity

**2. Which of these is an example of AI in daily life?**

- a) A wooden chair   b) Voice assistant   c) Plain notebook   d) Pencil

**3. The first step of the AI Project Cycle is generally:**

- a) Evaluation   b) Modelling   c) Problem Scoping   d) Deployment

**4. The 4W Problem Canvas helps us understand:**

- a) A problem clearly   b) Computer hardware   c) Drawing colours   d) Internet speed

**5. Which W asks who is affected by a problem?**

- a) What   b) Who   c) Where   d) Why

**6. Data means:**

- a) Facts and information   b) Only pictures   c) Only games   d) A computer screen

**7. Collecting information from a survey is an example of:**

- a) Data acquisition   b) Model evaluation   c) Formatting   d) Printing

**8. Data visualization presents data using:**

- a) Charts and graphs   b) Passwords only   c) Cables   d) Speakers

**9. A bar graph is useful for:**

- a) Comparing categories   b) Hiding information   c) Writing passwords   d) Making calls

**10. Computer Vision helps computers understand:**

- a) Images and videos   b) Smells   c) Taste   d) Temperature only

**11. Natural Language Processing (NLP) works with:**

- a) Human language   b) Rocks   c) Electricity wires   d) Only numbers

**12. Data Science mainly works with:**

- a) Data to find patterns and insights   b) Painting walls   c) Repairing chairs   d) Cooking food

**13. AI ethics is concerned with:**

- a) Responsible and fair use of AI   b) Making devices heavier   c) Increasing screen size   d) Changing fonts

**14. Keeping personal information safe is called protecting:**

- a) Privacy   b) Brightness   c) Volume   d) Animation

**15. A fair AI system should avoid:**

- a) Bias and unfair treatment   b) Clear information   c) Careful testing   d) Useful results

**16. Which is a good digital safety practice?**

- a) Share passwords publicly   b) Click every unknown link   c) Use strong passwords and keep them private   d) Post personal details everywhere

# PM SHRI KENDRIYA VIDYALAYA, ARA

## AUTUMN BREAK HOLIDAY HOMEWORK — CLASS VII

### SUBJECT: ARTIFICIAL INTELLIGENCE

#### SECTION B — SHORT-ANSWER QUESTIONS (5 × 2 = 10)

17. Define Artificial Intelligence and write two examples from daily life.
18. What is Problem Scoping? Why is it important before making an AI solution?
19. Explain any two W-questions used in the 4W Problem Canvas.
20. What is data literacy? Mention two ways to handle data responsibly.
21. Differentiate between Computer Vision and Natural Language Processing.

#### SECTION C — LONG-ANSWER QUESTIONS (4 × 4 = 16)

22. Describe the main stages of the AI Project Cycle in the correct order.
23. Explain Data Acquisition and Data Exploration with one suitable example each.
24. What is data visualization? Explain bar graphs and pie charts, and state when each can be useful.
25. Explain four important principles of AI ethics, such as fairness, privacy, transparency and accountability.

#### SECTION D — COMPETENCY-BASED QUESTIONS (2 × 4 = 8)

**26. School Canteen Survey:** A class surveys 40 students to learn their favourite snacks. The results are: Samosa—16, Sandwich—10, Fruit—8, Idli—6.

a) What type of data has been collected? (1) b) Which snack is most popular? (1) c) Suggest a suitable chart to show the results and explain why. (2)

**27. Smart School Helper:** A school wants to create an AI helper that answers students' questions. It will use students' questions and answers to improve.

a) Which AI domain is useful for understanding written questions? (1) b) Name one type of data it may need. (1) c) Write two ethical or safety steps the school should follow. (2)

#### HOLIDAY ACTIVITY — LEARN BY DOING

##### Topic: AI Around Me

Make a one-page poster or scrapbook titled “AI in My Daily Life”.

- Show any 3 examples of AI (for example, voice assistant, maps, face unlock or recommendations).
- For each example, write what it does and how it helps people.
- Add one point about using AI safely and responsibly. Draw or paste pictures and keep the work neat.

**Be curious • Think critically • Use technology responsibly**