



# PM SHRI KENDRIYA VIDYALAYA KHAMMAM



WINTER BREAK HOLIDAYS HOMEWORK (2025-26)

## CLASS VII

### SOCIAL SCIENCE

Answer the following questions. (Write in class work)

1. What is democracy?
2. What is a Constitution?
3. What are the main types of government?
4. What is climate?
5. How many main seasons are there in India?
6. Which region of India receives very heavy rainfall?
7. What is meant by 'double coincidence of wants'?
8. Why did people shift from barter to money?
9. Was money used in the barter system?
10. Why was Gouthamiputra Satakarni named so ?
11. Name the time-travel tool used by Bhavisha and Dhruv .?
12. Name some trade goods exported and imported during Satavahana rule?

Map pointing – Practice the map pointing of maps in textbook page no.119, 130.and Oceans, States names.

### MATHS

DAY 1 (23.12.25)			
Question 1: If $a = 7$ $b = 10$ $c = 3$ $d = 8$ and $e = 15$ Find the value of each expression.			
(a) $a + 5$	(b) $b - 4$	(c) $c + d$	(d) $e - d$
(e) $2a$	(f) $4b$	(g) $3e$	(h) $5c$
(i) $\frac{b}{2}$	(j) $\frac{e}{5}$	(k) $\frac{d}{4}$	(l) $\frac{a}{2}$
(m) $a^2$	(n) $b^2$	(o) $c^2$	(p) $d^2$
(q) $2a + 1$	(r) $3b - 7$	(s) $9c + 11$	(t) $4e - 45$
(u) $2a + 3c$	(v) $4d - b$	(w) $5a + 2d$	(x) $e - 4c$
(y) $30 - 4a$	(z) $15 - 3c$		

Day 2 (24.12.25)

1. Simplify:

$$5x + 3x$$

2. Simplify:

$$7a - 4a + 9$$

3. Simplify:

$$6y + 2 - y + 5$$

4. Simplify:

$$4m + 3n - 2m + n$$

5. Simplify:

$$8p - 3 + 2p + 7$$

6. Simplify:

$$9x - 4y + 2x + y$$

7. Simplify:

$$3(a + 4) + 2a$$

8. Simplify:

$$5(2x - 3) + x$$

9. Simplify:

$$7m - 2(3m - 5)$$

10. Simplify:

$$4x + 6 - (2x - 8)$$

Day 3 (24.12.25)

Add the following algebraic expressions:

1.  $(3x + 5) + (2x + 7)$

2.  $(4a - 3) + (6a + 9)$

3.  $(7y + 2) + (y - 5)$

4.  $(5m + 4n) + (3m + 6n)$

5.  $(8p - 3q) + (2p + 5q)$

6.  $(6x + 4y - 2) + (3x - y + 5)$

7.  $(9a - 5b + 7) + (a + 3b - 2)$

8.  $(4m + 2n + 6) + (5m - n - 1)$

9.  $(7x - 3y + 4) + (2x + 5y - 6)$

10.  $(10p + 6q - 8) + (4p - 2q + 3)$

## Day 4 (25.12.25)

Subtract the following algebraic expressions:

1. Subtract  $(2x + 3)$  from  $(5x + 7)$ .
2. Subtract  $(3a + 6)$  from  $(8a - 4)$ .
3. Subtract  $(4y - 2)$  from  $(9y + 5)$ .
4. Subtract  $(2m + n)$  from  $(6m + 3n)$ .
5. Subtract  $(4p + 2q)$  from  $(10p - 6q)$ .
6. Subtract  $(2x - y + 4)$  from  $(7x + 5y - 3)$ .
7. Subtract  $(5a + 3b - 2)$  from  $(12a - 8b + 6)$ .
8. Subtract  $(3m - 2n + 1)$  from  $(9m + 4n - 5)$ .
9. Subtract  $(5x + 2y - 4)$  from  $(11x - 6y + 8)$ .
10. Subtract  $(6p - 3q + 5)$  from  $(15p + 7q - 9)$ .

Day 5 (26.12.25)

Grade 5  
Maths  
Algebra

Algebra

### Matchstick Patterns

Complete the table for each sequence of matchstick shapes. Use the function rule for finding the number of matchsticks needed for the shape in the 20th position.

1

Shapes Number	1	2	3	4	5	6	7	8	9	20
Number of Matchsticks	3	5	7	9	11					
Function Rule	Number of Matchsticks = $\underline{\hspace{1cm}}$ $\times$ $\underline{\hspace{1cm}}$ $+$ $\underline{\hspace{1cm}}$									

2

Shapes Number	1	2	3	4	5	6	7	8	9	20
Number of Matchsticks	5	9	13	17						
Function Rule	Number of Matchsticks = $\underline{\hspace{1cm}}$ $\times$ $\underline{\hspace{1cm}}$ $+$ $\underline{\hspace{1cm}}$									

3

Shapes Number	1	2	3	4	5	6	7	8	9	20
Number of Matchsticks	4	7	10	13						
Function Rule	Number of Matchsticks = $\underline{\hspace{1cm}}$ $\times$ $\underline{\hspace{1cm}}$ $+$ $\underline{\hspace{1cm}}$									

4

Shapes Number	1	2	3	4	5	6	7	8	9	20
Number of Matchsticks	6	11	16	21						
Function Rule	Number of Matchsticks = $\underline{\hspace{1cm}}$ $\times$ $\underline{\hspace{1cm}}$ $+$ $\underline{\hspace{1cm}}$									

Day 6 (27.12.25)

# Finding nth Terms from Patterns

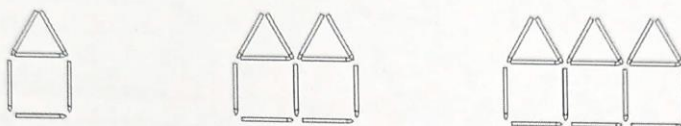


Find the number of matchsticks in the nth pattern.

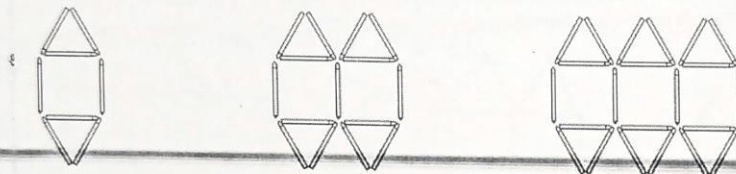
## Section A



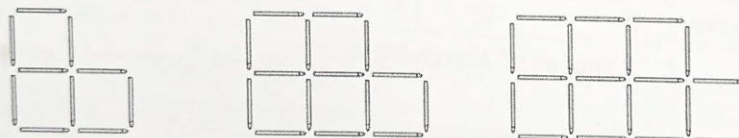
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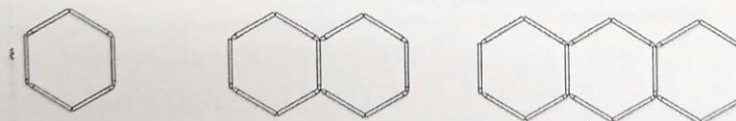
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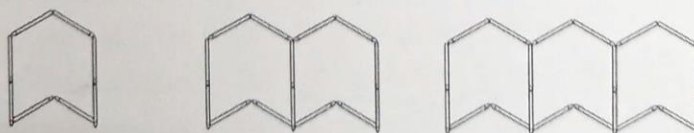
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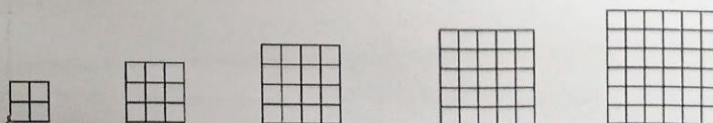
## Section E



## Section F



## Extension



Day 7 (28.12.25)

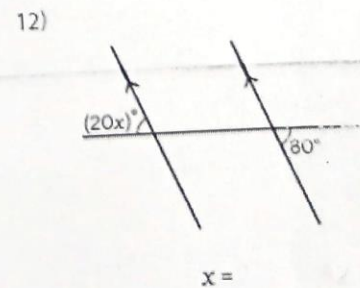
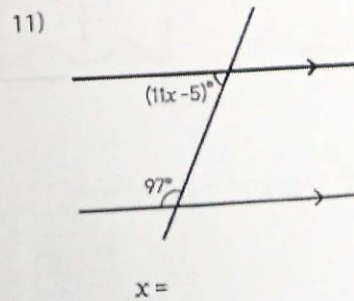
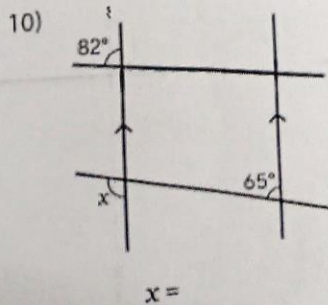
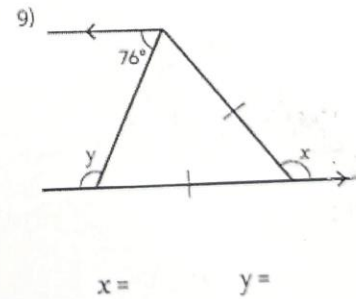
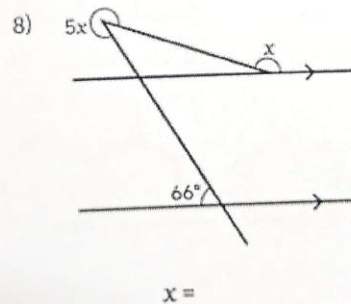
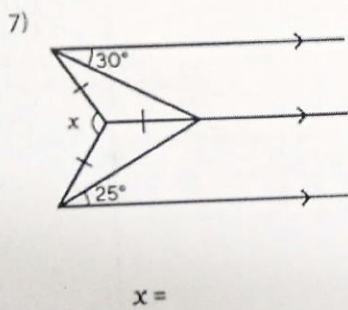
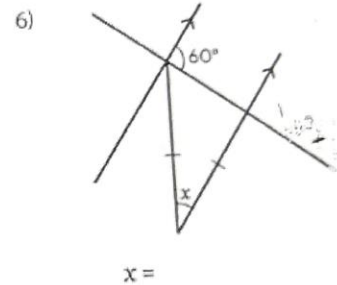
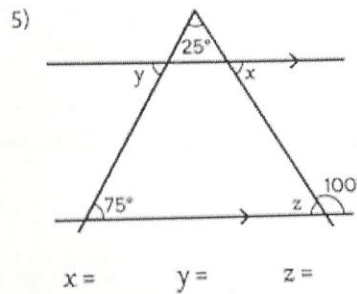
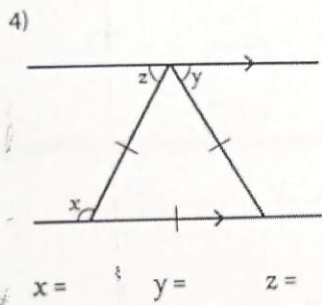
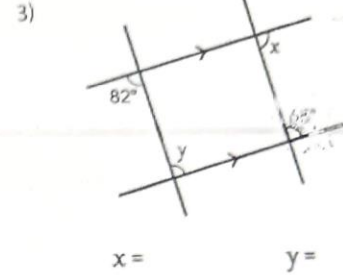
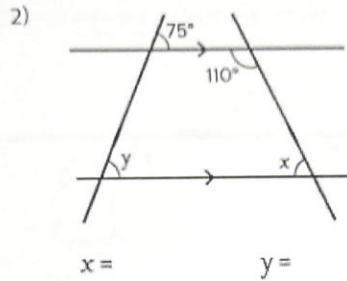
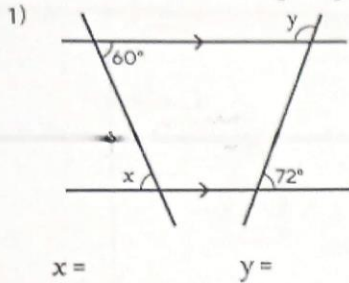
Name: \_\_\_\_\_

Date: \_\_\_\_\_ Score: \_\_\_\_\_

MATH  
MONKS

## Parallel Lines and Angles

Calculate the missing angles.



## **ARTIFICIAL INTELLIGENCE**

1. Write 5 lines on "AI in My Daily Life."
2. Explain how assistants like Alexa or Google Assistant work voice.
3. Describe the uses of AI in schools.
4. What is face recognition technology?
5. What is a smart assistant?

## **HINDI**

नोट - सभी प्रश्नों के उत्तर संक्षिप्त रूप में अपनी हिन्दी नोटबुक में लिखो-

प्रश्न 1- प्रतिदिन एक पेज सुलेख कार्य कीजिए ?

प्रश्न 2- भारतीय लोकनृत्यों की सूची बनाइए और उनके विषय में पाँच-पाँच बिन्दु लिखिए ।

प्रश्न 3- वर्षा ऋतु पर आधारित एक कविता की रचना कीजिए ?

प्रश्न 4- किसी व्यक्ति का कौन सा गुण आपको सबसे अधिक आकर्षित करता है ? अपने जीवन से जुड़े किसी व्यक्ति के उदाहरण से बताइए ।

प्रश्न 5- दस ऐसे शब्दों को लिखिए जिनके एक से अधिक अर्थ निकलते हैं?

प्रश्न 6- निम्नलिखित विषयों पर अनुच्छेद लिखिए -

क- क्रीडा दिवस पर

ख- पुस्तकालय का लाभ

ग-शीतकालीन अवकाश

प्रश्न 7-(क) अपने विद्यालय के प्रधानाचार्य को अपना सेक्शन बदलवाने के लिए प्रार्थना पत्र लिखिए।

(ख) अपने विद्यालय के स्थापना दिवस कार्यक्रम को साझा करते हुए अपने मित्र को पत्र लिखिए।

## **SCIENCE**

1. Complete your CW and HW notebook till chapter- Life processes in Animals.
2. Complete the learner's diary for all covered chapters.
3. Prepare a MDP on the topic -POPULATION-  
SUB TOPIC-  
●Population and Resource Management: Discuss the challenges of managing resources (water, food, energy) with a growing population.
4. Learn and practice the chapters which will be asked in PT-2.
5. Answer the following questions in your Homework Notebook-
  - (a) Write the changes which take place during puberty in girls and boys and also mention common changes.
  - (b) To keep her soup warm, Ritu wrapped the container in which it was kept with a woollen cloth. Can she apply the same method to keep a glass of cold drink cool? Give a reason for your answer.
  - (c) Explain the phenomena of sea breeze and land breeze.
  - (d) Differentiate between uniform and non-uniform motion.
  - (e) The distance between the two stations is 280 km. How much time a train running at a speed of 70 km/h take to cover this distance?

## **SANSKRIT**

पीएम श्री केंद्रीय विद्यालय खम्मम

कक्षा सातवीं विषय संस्कृत शीतकालीन गृह कार्य

प्र 1 ईशावास्यम इदं सर्वम पाठ के प्रश्न उत्तर लिखो

प्र 2 हितम मनोहारी च दुर्लभ वाचन पाठ के प्रश्न उत्तर अपने शब्दों में लिखो

प्र 3 अन्नाद भवन्ति भूतानि पाठ के प्रश्न उत्तर लिखे