

**PM SHRI KENDRIYA VIDYALAYA PERIODIC TEST-I**

**CLASS- VIII, SESSION: 2025-26**






















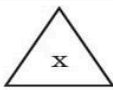
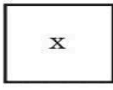
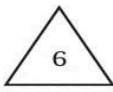
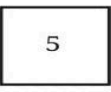
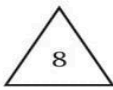
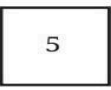
**Time Allowed: 1.5 hours**

**Maximum Marks: 40**

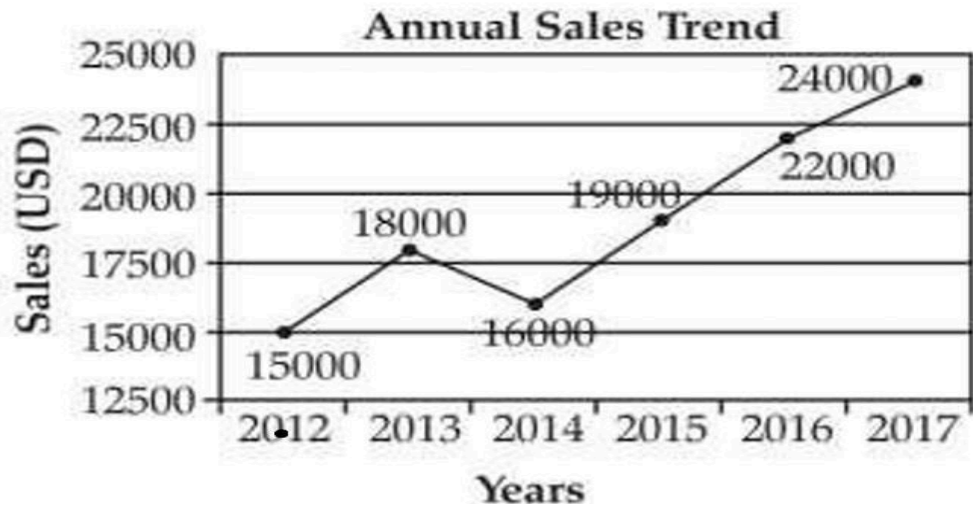
**General Instructions:**

1. The question paper consists of 19 questions divided into 3 sections A, B, C, D & E
2. All questions are compulsory.

Q No.		Marks
<b>Section-A (10 Questions of 1 Mark Each)</b>		
<b>1</b>	In the month of 28 days how many days are prime? (a) 11                      (b) 10                      (c) 9                      (d) 8	<b>1</b>
<b>2</b>	Find the value of 'x' for the equation $3 \times x + 5 = 26$ (a) 14                      (b) 8                      (c) 7                      (d) 6	<b>1</b>
<b>3</b>	A square is a ----- with equal sides (a) Rectangle                      (b) kite                      (c) Hexagon                      (d) Trapezium	<b>1</b>
<b>4</b>	Find the Area of the square whose perimeter is 20m. (a) 5m                      (b) 2m                      (c) 25 square m                      (d) 30 square m	
<b>5</b>	A cuboid has length 7 cm, breadth 6 cm and height 5 cm. Find the volume of cuboid? (a) $210 \text{ cm}^3$ (b) $200 \text{ cm}^3$ (c) $18 \text{ cm}^3$ (d) $18 \text{ cm}^3$	<b>1</b>
<b>6</b>	A water tank is filled up to $\frac{3}{4}$ of its capacity. If the tank's full capacity is 240 liters, how much water is in it now? (a) 60 L                      (b) 120 L                      (c) 180 L                      (d) 240 L	<b>1</b>
<b>7</b>	What is the formula to find the sum of n consecutive odd numbers? (a) $n^2$ (b) $n(n-1)$ (c) $n(n+1)$ (d) $2n$	<b>1</b>
<b>8</b>	What shape is formed when stacking blocks for $2^3$ (a) Cuboid                      (b) Cube                      (c) Cylinder                      (d) Sphere	<b>1</b>
<b>9</b>	The point (-5,0) lies on which of the following? (a) x-axis                      (b) y-axis                      (c) origin                      (d) None	<b>1</b>
<b>10</b>	What is the power of $4^4$ (a) 64                      (b) 256                      (c) 260                      (d) 1024	<b>1</b>
<b>Section-B (3 Questions of 2 Marks Each)</b>		
<b>11</b>	Find three prime numbers less than 30 whose product is 1955.	<b>2</b>
<b>12</b>	a. There are 40 students in a class. $\frac{1}{5}^{\text{th}}$ of them went on a trip. How many went on the trip. b. Who am I? I am a prime number. The sum of my digits is 8. I am greater than	<b>2</b>

	10 but less than 50. What number am I?	
13	<p>Here, you are given two representations, where symbols have been used. Each symbol represents a numeric value. Find the value of each symbol.</p> <div>  +  +  = 15   +  +  = 13   +  +  = 15   +  +  =   +  +  = </div> <div>  +  = 12 </div> <div>  =   =   =   = </div>	2
	<b>Section-C (2 Questions of 3 Marks Each)</b>	
14	<p>A piece of string is 30 cm long. What will be the length of each side if the string is used to form :</p> <p>(a) a square?</p> <p>(b) an equilateral triangle?</p> <p>(c) a regular hexagon</p>	3
15	<div>  = <math>x^2 - 1</math>, if x is an even number   = <math>x^2 + 1</math>, if x is an odd number </div> <p>a. What is the value of</p> <div>  -  = ? </div> <p>b. What is the value of</p> <div>  +  = ? </div>	3
	<b>Section-D (2 Questions of 5 Marks Each)</b>	
16	<p>(a) Check whether the following numbers are perfect number or not? 28, 18</p> <p>(b)</p>	2
		3

	<p>Case Study: The Mystery of the Number Machine</p> <p>Ravi's school got a new "Number Machine" that follows a hidden rule. She notices that when certain numbers are input, the machine gives different outputs:</p> <table><tr><th>Input (X)</th><th>Output (Y)</th></tr><tr><td>1</td><td>3</td></tr><tr><td>2</td><td>6</td></tr><tr><td>3</td><td>11</td></tr><tr><td>4</td><td>18</td></tr><tr><td>5</td><td>27</td></tr></table> <p>Ravi is curious and wants to decode the rule the machine uses to convert the input into output.</p> <ol style="list-style-type: none"><li>Observe the pattern and write the relationship (rule) between the input (X) and the output (Y).</li><li>Predict the output when the input is 6.</li><li>If the output is 43, what was the input?</li></ol>	Input (X)	Output (Y)	1	3	2	6	3	11	4	18	5	27																																						
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1	3																																																		
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5	27																																																		
17	<p>a) Draw triangle around prime numbers given in the calander below.</p> <p>From the given calendar answer the following questions</p> <div><div><div>August 2020</div><table><tr><th>Sun</th><th>Mon</th><th>Tue</th><th>Wed</th><th>Thu</th><th>Fri</th><th>Sat</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></tr><tr><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr><tr><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td></tr><tr><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td></tr><tr><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr><tr><td>30</td><td>31</td><td></td><td></td><td></td><td></td><td></td></tr></table></div><div><p>(a) Write the day on which the multiples of 7 lies.</p><p>(b) Find the mean of all Tuesday</p><p>(c) Write all cubes number</p><p>(d) Draw any two 3 by 3 grid from the given calendar and find the mean of all numbers and sum of diagonals</p></div></div>	Sun	Mon	Tue	Wed	Thu	Fri	Sat							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						1+4=5
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	<p>Section-E</p> <p>(2 Question of 4 Marks)</p>																																																		
18.	<p>Read the text carefully and answer the questions:</p> <p>The given line graph shows the annual sales of car for past six years. on basis of given information in graph answer the following questions:</p>	4																																																	



On the basis of above information answer the following questions:

- i) What was the sale of car in year 2015?  
(a) 15000      (b) 16000      (c) 18000      (d) 19000
- ii) How many cars are sold between 2013 and 2012?  
(a) 3000      (b) 5000      (c) 6000      (d) 8000
- iii) In which year sale is maximum?  
(a) 2014      (b) 2017      (c) 2015      (d) 2016
- iv) In which year the sales of car depreciated and by how much?  
(a) 2014      (b) 2013      (c) 2015      (d) 2016

19.

Answer the following question from below given table.

0	01	02	03	04	05	06	07	08	09
10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49
50	51	52	53	54	55	56	57	58	59
60	61	62	63	64	65	66	67	68	69
70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89
90	91	92	93	94	95	96	97	98	99

- a) The number is greater than 9.
- b) The number is not a multiple of 10.
- c) The number is a multiple of 8.
- d) The number is even.
- e) The number is not a multiple of 11.
- f) The number is less than 175.
- g) Its ones digit is larger than its tens digit.
- h) Its tens digit is odd

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