

**KENDRIYA VIDYALAYA BADDOWAL CANTT.**

**SUBJECT – MATHEMATICS**

**SUMMER VACATION HOMEWORK – 2026**

**CLASS - VI**

| Ist Week        | <div>1. Fill in the blanks in the given pattern :<br/>(i) 2,4,6,8, ..... , ..... , ..... .<br/>(ii) 3,5,7,9, ..... , ..... , ..... .<br/>(iii) 1,3,6,10, ..... , ..... , ..... .<br/>(iv) 1,4,9,16, ..... , ..... , ..... .<br/>(v) 1,2,3,5,8, ..... , ..... , ..... .<br/>(vi) 1,3,9,27, ..... , ..... , ..... .</div> <div>2. Expand the following pattern up to 10 numbers<br/>(a) 1= 1<br/>(b) 1 + 3 = 4<br/>(c) 1 + 3 + 5 = 9<br/>(d) .....<br/>(e) .....<br/>(f) .....<br/>(g) .....<br/>(h) .....<br/>(i) .....</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |                         |                                |                 |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |  |  |  |  |
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| IIInd Week      | <div>3. Expand the following pattern up to 15numbers :<br/>(a) 1 = 1<br/>(b) 1+2+1 = 4<br/>(c) 1+2+3+2+1 =9<br/>(d) .....<br/>(e) .....<br/>(f) .....<br/>(j) .....<br/>(k) .....<br/>(g) .....<br/>(h) .....</div> <div>4. Define the following : (a)Natural number (b) Whole number (c) Even number (d) Odd number (e) Prime number (f) Composite number (g) Triangular number (h) RegularPolygon (i) Virahanka number</div> <div>5 . Complete the following table for polygon</div> <table><tr><th>Number of Sides</th><th>Name of regular polygon</th><th>Measure of each interior angle</th><th>Fig. of polygon</th></tr><tr><td>3 Sides</td><td></td><td></td><td></td></tr><tr><td>4 Sides</td><td></td><td></td><td></td></tr><tr><td>5 Sides</td><td></td><td></td><td></td></tr><tr><td>6 Sides</td><td></td><td></td><td></td></tr><tr><td>7 Sides</td><td></td><td></td><td></td></tr><tr><td>8 Sides</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table> | Number of Sides                | Name of regular polygon | Measure of each interior angle | Fig. of polygon | 3 Sides |  |  |  | 4 Sides |  |  |  | 5 Sides |  |  |  | 6 Sides |  |  |  | 7 Sides |  |  |  | 8 Sides |  |  |  |  |  |  |  |
| Number of Sides | Name of regular polygon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Measure of each interior angle | Fig. of polygon         |                                |                 |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |  |  |  |  |
| 3 Sides         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |                         |                                |                 |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |  |  |  |  |
| 4 Sides         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |                         |                                |                 |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |  |  |  |  |
| 5 Sides         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |                         |                                |                 |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |  |  |  |  |
| 6 Sides         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |                         |                                |                 |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |  |  |  |  |
| 7 Sides         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |                         |                                |                 |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |  |  |  |  |
| 8 Sides         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                |                         |                                |                 |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |  |  |  |  |
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| IIIrd Week      | <div>6. Compare using &gt; = &lt; :<br/>(a) 34872 __ 34900 (b) 87945 __ 78945 (c) 724582 __ 88899 (d) 206006 __ 116116<br/>(e) 846470 __ 847740 (f) 42358 __ 423580 (g) 304560____ 345269 (h) 3045 __ 3321<br/>(i) 97542 ____95724</div> <div>7. Arrange the given numbers in ascending order.<br/>(a) 58,992; 59,228; 8,59,992; 1,54,992<br/>(b) 7,96,441; 8,96,441; 7,99,641; 8,59,821<br/>(c) 6,89,774; 6,78,940; 7,18,444; 5,68,710<br/>(d) 3,80,751; 3,36,547; 3,98,694; 3,26,880</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |                         |                                |                 |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |         |  |  |  |  |  |  |  |

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|           | <p>(e) 5,56,442; 5,26,452; 5,95,442; 5,34,561</p> <p>8. Arrange the given numbers in descending order.<br/>           (a) 71, 800; 40,875; 72,984; 6,98,504<br/>           (b) 8,63,019; 8,60,548; 8,65,881; 8,59,004<br/>           (c) 6,30,062; 1,63,050; 8,39,035; 5,69,204<br/>           (d) 3,80,651; 3,37,547; 3,90,694; 3,36,880<br/>           (e) 8,56,422; 8,26,452; 8,95,442; 8,34,561</p> <p>9. Use the given digits without repetition and make the greatest and smallest numbers.<br/>           (a) 2, 8, 7, 4 (b) 9, 7, 4, 1 (c) 4, 7, 5, 0 (d) 1, 7, 6, 2 (e) 5, 4, 0, 3 (f) 3, 5, 8, 0, 1</p>                                                                                                                                   |
| IVth Week | <p>10. Rewrite the following numbers placing comma (,) as per the Indian system:<br/>           (i) 645367 (ii) 50301268 (iii) 436405 (iv) 3268431<br/>           (v) 2414360</p> <p>11. Write the following in figures.<br/>           (i) Six million, four hundred and eleven thousand, two hundred and sixty<br/>           (ii) Sixty-five million, one hundred and sixteen thousand, five hundred and five<br/>           (iii) Six hundred thousand, two hundred and fifteen<br/>           (iv) One hundred and sixteen million, One hundred and ten thousand, and thirty-nine<br/>           (v) Fifty-five million, four hundred and sixty thousand, nine hundred and two</p> <p>12. Make two magic squares with the help of numbers.</p> |
| Vth Week  | <p>13. The following series follows a fixed pattern: 2, 3, 3, 4, 4, 4, 5, 5, 5, 5, 6, ... If the pattern continues,<br/>           determine how many times the number 9 appears in the NEXT 20 terms.</p> <p>14. What will come in place of "?" in the given series?</p> <div style="text-align: center;"> </div> <p>15. What will come in place of "?" in the given series?</p> <div style="text-align: center;"> </div>                                                                                                                                                                                                                                                                                                                          |
| VIth Week | <p>16. Make a Rangoli (Geometry art project) with the help of shapes, lines and angles.</p> <p>17. Draw a map of your Dream House and colour it.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |