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| Grade:IV Shapes Around Us Question Bank  (Mathematics) 1. Write true or False :
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| 1. | The given shape is a regular polygon.\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 2. | The given shape is an irregular polygon.\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 3. | The given shape is an irregular polygon.\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 4. | The given shape is a regular polygon.\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 5. | A polygon cannot have less than three sides.\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| 6. | The given polygon is a triangle.\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |

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| 1. Give one difference between
 |
| 1 | A regular polygon and an irregular polygon  |
| 2 | A triangle and a quadrilateral III)Choose the best option :

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| 1. | What is the segment AS of this circle called?  |
|  |  |
|  | 1. Diameter
 |
|  | 1. Radius
 |
|  | 1. Chord
 |
|  | 1. Centre
 |
| 2. | Which of the following is the radius of this circle? |
|  |  |
|  | 1. PV
 |
|  | 1. PT
 |
|  | 1. PS
 |
|  | 1. All the above
 |
| 3. | If the length of the segment PT is 4 cm, then how long is the segment    ST? |
|  |  |
|  | 1. 5 cm
 |
|  | 1. 8 cm
 |
|  | 1. 7 cm
 |
|  | 1. 2 cm
 |
| 4. | If the length of the segment ST is 12 cm, then how long is the segment PV?  |
|  |  |
|  | 1. 5 cm
 |
|  | 1. 8 cm
 |
|  | 1. 6 cm
 |
|  | 1. 3 cm
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| **ELO :** | Identify concentric circles. |
| I. | Identify the figure that shows concentric circles. Put a tick in the box below it.  |
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| II. | Identify the pictures which have concentric circles in them. Put a tick against them. |

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|  1. |  a. |  |
| 2. |  b. |  |
| 3. |  c. |  |
| 4. |  d. |  |

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| **ELO 4:** | Construct circles with or without using compass. |
| I. | Draw 5 circles of different sizes using a compass. |
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| II. | Use a compass to draw a circle of radius 5.2 cm. Draw another circle of radius 3 cm cutting the first circle at two points. Mark their centres and name them. |
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| III. | Draw three concentric circles using a compass. Mark their common centre and name it.  |

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| **ELO 5:** | Identify lines of symmetry. |
| I. | Colour the lines of symmetry in each shape blue. |
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| **ELO:** | Predict the number of lines of symmetry in regular polygons. |
| I. | Predict the number of lines for symmetry for the following polygons. |
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|  |  Regular polygons  | Number of lines of symmetry of the regular polygon  |
|  |   Number of sides = 4  |  |
|  | Number of sides = 6  |  |
|  | Number of sides = 7 |  |
|  | How many lines of symmetry will a regular polygon with nine sides have?  |
|  | How many lines of symmetry will a regular polygon with ten sides have?  |
|  |  |

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| II. | Predict the number of lines for symmetry for the following polygons. |
|  |
|  | a) An equilateral triangle |  |
|   |  |  |
|  | b) A square  |  |
|  |  |  |

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|  | c) A regular pentagon  |  |
|   |  |  |
|  | d) A regular hexagon  |  |
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| III. | Look at the pattern that emerges from the answers of question II above. What is the relation you can see between the number of sides of a regular polygon and the number of lines of symmetry that exists for it? |
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