|  |
| --- |
| Grade:IV Shapes Around Us Question Bank  (Mathematics)   1. Write true or False : |



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  | | --- | --- | --- | | 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.  \_\_\_\_\_\_\_\_\_\_\_\_\_ |  | | |
|  |
|  |

|  |  |
| --- | --- |
|  |  |
| 1. Give one difference between | |
| 1 | A regular polygon and an irregular polygon |
| 2 | A triangle and a quadrilateral  III)Choose the best option :   |  |  | | --- | --- | | 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 |  |  |  | | --- | --- | |  |  | |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **ELO :** | Identify concentric circles. | | | | | I. | Identify the figure that shows concentric circles. Put a tick in the box below it. | | | | |  | | | | | |  |  |  |  |  | |  | A picture containing picture frame, screenshot  Description automatically generated | A picture containing picture frame, screenshot  Description automatically generated | A picture containing picture frame, screenshot  Description automatically generated | A picture containing picture frame, screenshot  Description automatically generated | |  |  | | | |  |  |  | | --- | --- | | II. | Identify the pictures which have concentric circles in them. Put a tick against them. | |

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

|  |  |
| --- | --- |
| **ELO 4:** | Construct circles with or without using compass. |
| I. | Draw 5 circles of different sizes using a compass. |
|  | |

|  |  |
| --- | --- |
| 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. |
|  | |

|  |  |
| --- | --- |
| III. | Draw three concentric circles using a compass. Mark their common centre and name it. |

|  |  |  |  |
| --- | --- | --- | --- |
| **ELO 5:** | | Identify lines of symmetry. | |
| I. | | Colour the lines of symmetry in each shape blue. | |
|  | | | |
|  | |  | |
|  | |  | |
| **ELO:** | Predict the number of lines of symmetry in regular polygons. | | |
| I. | Predict the number of lines for symmetry for the following polygons. | | |
|  | | | |
|  | 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? | | |
|  |  | | |

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

|  |  |  |
| --- | --- | --- |
|  | c) A regular pentagon |  |
|  |  |  |
|  | d) A regular hexagon |  |
|  |  |  |
|  |  |  |

|  |  |
| --- | --- |
| 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? |
|  | |