

**MEMORANDUM**

## GAUTENG DEPARTMENT OF EDUCATION

|  |  |  |
| --- | --- | --- |
| **SUBJECT** | **:** | **MATHEMATICS** |
| **GRADE** | **:** | **7** |
| **TASK** | **:** | **TEST 1** |
| **MARKS** | **:** | **50** |

**This memorandum consists of 7 pages**

**QUESTION 1: MULTIPLE CHOICE QUESTIONS**

|  |  |  |
| --- | --- | --- |
| 1. | **Choose the correct answer by circling the appropriate letter** |  |
| 1.1 | A right angle is………   1. An angle greater than but less than 2. An angle measuring less than 3. **An angle measuring** | 2  **C** |
| 1.2 | An Isosceles triangle has…….   1. All the sides of the same length 2. **Two sides of the same length** 3. All sides of different length | 2  B |
| 1.3 | Lines that are always the same distance apart are called…   1. **Parallel lines** 2. Perpendicular lines 3. Radius | 2  **A** |
| 1.4 | Half of a circle is called…   1. Sector of a circle 2. Segment of a circle 3. **Semicircle** | 2  **C** |
| 1.5 | All the angles of an equilateral are… | 2  **A** |

**[10]**

**QUESTION 2: Construction**

|  |  |  |
| --- | --- | --- |
| 2. | Use the figure below to complete the following statements  600  Q  X  R  Y  Z  P |  |
| 2.2 | measures . It is a **right angle**. | 2 |
| 2.3 | measures . It is an **acute angle**. | 2 |
| 2.4 | measures **.** It is an **obtuse angle**. | 2 |
| 2.5 | measures or . It is a **straight angle** | 2 |

**[08]**

**QUESTION 3 Geometry of 2D shapes**

|  |  |  |
| --- | --- | --- |
| 3. | Classify the triangles below as right –angled, Isosceles or Equilateral. Give reasons for each of your answer. |  |
| 3.1 | A  B  C  **Equilateral triangle**  **All sides are equal** | 2 |
| 3.2 | D  E  F  **Right-angled triangle**  **One right angle** | 2 |
| 3.3 | G  H  I  **Isosceles triangle**  **Two sides are equal** | 2 |

**[06]**

**QUESTION 4: Geometry of 2D shapes**

|  |  |  |
| --- | --- | --- |
| 4. | Determine the missing angles and sides in the figure below and give reasons for the answer:  A  B  C  O  1  2 |  |
| 4.1 | , base angle of an isosceles triangle | 2 |
| 4.2 | , angles of a triangle adds up to | 2 |
| 4.3 | , angles of a triangle adds up to | 2 |
| 4.4 | , opposite sides of an isosceles triangle are equal | 2 |
| 4.5 | , radius of a circle are equal in length | 2 |

**[10]**

**QUESTION 5: Geometry of 2D shapes**

|  |  |  |
| --- | --- | --- |
| 5. | The two polygons below are similar.  X  Z  Y  A  C  B  Find the sizes of the following: |  |
| 5.1 |  | 2 |
| 5.2 |  | 2 |
| 5.3 |  | 2 |
| 5.4 |  | 2 |

**[08]**

**QUESTION 6 Geometry of Straight lines**

6. Match column A with column B.

|  |  |  |
| --- | --- | --- |
| Column A | Column B |  |
| 6.1 | **Parallel lines** | 2 |
| 6.2 | **Ray** | 2 |
| 6.3 | **Line segment** | 2 |
| 6.4 | **Straight line** | 2 |