**Area and Circumference of Circle**

|  |  |  |
| --- | --- | --- |
| Name : | Class : | Date : |

|  |  |  |
| --- | --- | --- |
| Mark : | /12 | % |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1)** Name the labelled parts of the circle below.  Choose from the following words: segment, sector, chord, circumference, centre, radius, diameter, arc   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | http://www.mathster.com/course/simgs/16151541065_1.png | |  | | --- | | 1. | | 2. | | 3. | | 4. | | 5. | | 6. | | 7. | | 8. | | | [1] |
| **2)** Estimate the area of the circle by counting unit squares        http://www.mathster.com/course/simgs/16151541065_2.png | [1] |
| **3)** Find the area of the circle pictured below, rounding your answer to 3 significant figures  http://www.mathster.com/course/simgs/16151541065_3.png | [1] |
| **4)** Find the area of the circle pictured below, rounding your answer to 3 significant figures  http://www.mathster.com/course/simgs/16151541065_4.png | [1] |
| **5)** The circumference of a circle is 4.9 cm. Find the area of the circle, rounding your answer to 3 significant figures. | [1] |
| **6)** The area of a circle is 2.6  . Find the circumference of the circle, rounding your answer to 3 significant figures. | [1] |
| **7)** Find the radius of a circle which has an area of 92 | [1] |
| **8)** Find the diameter of a circle which has an area of 5.5 | [1] |
| **9)** Find the circumference of the circle pictured below, rounding your answer to 3 significant figures  http://www.mathster.com/course/simgs/16151541065_5.png | [1] |
| **10)** Find the circumference of the circle pictured below, rounding your answer to 3 significant figures  http://www.mathster.com/course/simgs/16151541065_6.png | [1] |
| **11)** Find the radius of a circle, where the circumference is:         13 cm | [1] |
| **12)** Find the diameter of a circle, where the circumference is:         8.8 cm | [1] |

**Solutions for the assessment Area and Circumference of Circle**

|  |  |
| --- | --- |
| **1)** 1 = centre, 2 = circumference, 3 = segment, 4 = chord 5 = diameter, 6 = radius, 7 = sector, 8 = arc | **2)** Area = 13 |
| **3)** Area = 4300 | **4)** Area = 36.3 |
| **5)** Area = 1.91 | **6)** Circumference = 5.72 cm |
| **7)** Radius = 5.41 cm | **8)** Diameter = 2.65 cm |
| **9)** Circumference = 47.1 cm | **10)** Circumference = 12.6 cm |
| **11)** Radius = 2.07 cm | **12)** Diameter = 2.80 cm |