**Area and Circumference of Circle**

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| **1)** Name the labelled parts of the circle below.Choose from the following words: segment, sector, chord, circumference, centre, radius, diameter, arc

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| http://www.mathster.com/course/simgs/44049657510_1.png |

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| 1.  |
| 2.  |
| 3.  |
| 4.  |
| 5.  |
| 6.  |
| 7.  |
| 8.  |

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      | [1]   |
| **2)** Estimate the area of the circle by counting unit squares      http://www.mathster.com/course/simgs/44049657510_2.png | [1]   |
| **3)** Find the area of the circle pictured below, rounding your answer to 3 significant figureshttp://www.mathster.com/course/simgs/44049657510_3.png      | [1]   |
| **4)** Find the area of the circle pictured below, rounding your answer to 3 significant figureshttp://www.mathster.com/course/simgs/44049657510_4.png      | [1]   |
| **5)** The circumference of a circle is 46 cm. Find the area of the circle, rounding your answer to 3 significant figures.       | [1]   |
| **6)** The area of a circle is 4.9  $cm^{2}$. 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 8.4  $cm^{2}$      | [1]   |
| **8)** Find the diameter of a circle which has an area of 80  $cm^{2}$      | [1]   |
| **9)** Find the circumference of the circle pictured below, rounding your answer to 3 significant figureshttp://www.mathster.com/course/simgs/44049657510_5.png      | [1]   |
| **10)** Find the circumference of the circle pictured below, rounding your answer to 3 significant figureshttp://www.mathster.com/course/simgs/44049657510_6.png      | [1]   |
| **11)** Find the radius of a circle, where the circumference is:       4.1 cm | [1]   |
| **12)** Find the diameter of a circle, where the circumference is:       38 cm | [1]   |

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

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| **1)** 1 = sector, 2 = diameter, 3 = chord, 4 = radius5 = circumference, 6 = centre, 7 = arc, 8 = segment | **2)** Area = 13  $cm^{2}$ |
| **3)** Area = 13.9  $cm^{2}$ | **4)** Area = 95.0  $cm^{2}$ |
| **5)** Area = 168  $cm^{2}$ | **6)** Circumference = 7.85 cm |
| **7)** Radius = 1.64 cm | **8)** Diameter = 10.1 cm |
| **9)** Circumference = 452 cm | **10)** Circumference = 160 cm |
| **11)** Radius = 0.653 cm | **12)** Diameter = 12.1 cm |