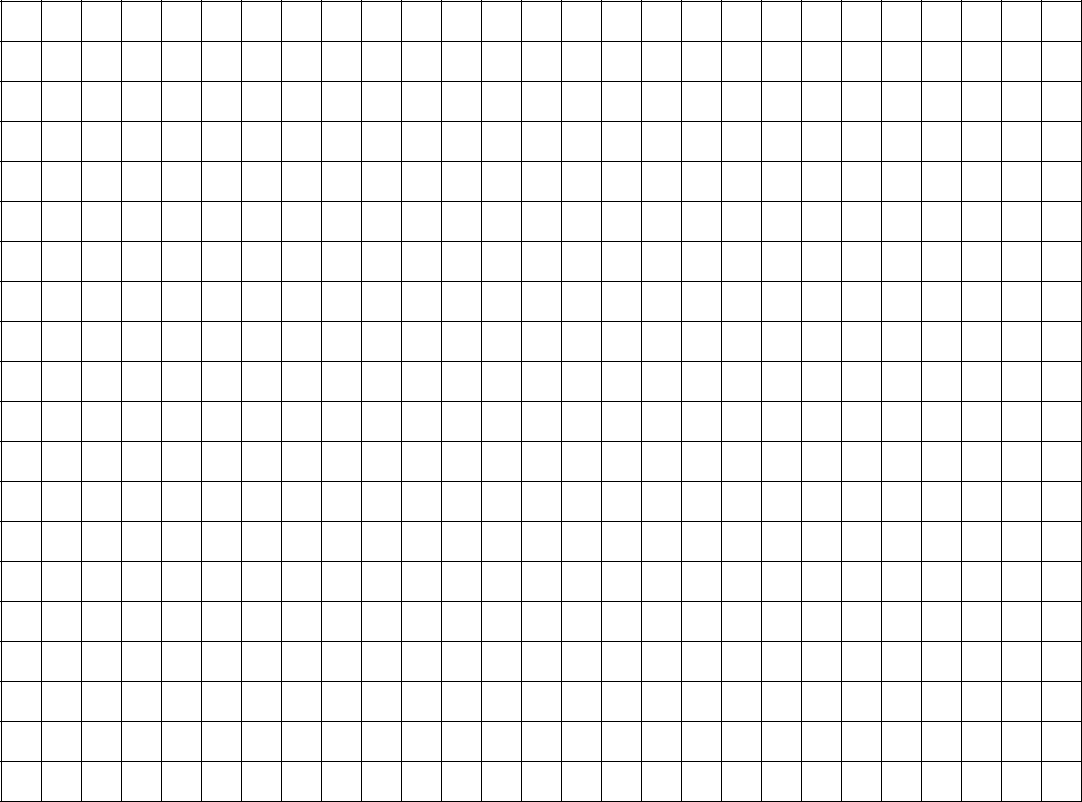
**QUIZ: Area and Circumference of Circles** Name: \_\_\_\_\_\_\_\_\_\_\_\_

|  |
| --- |
| Write out the formulas |
| **Area of a circle = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  “pizza” |
| **Circumference = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  “pizza crust” |

**1 square = 1 cm2**

**A**

**B**

**C**

|  |  |  |
| --- | --- | --- |
| **Estimate** the areas of the circles | | |
| **Circle A =** \_\_\_\_\_\_\_\_ | **Circle B =** \_\_\_\_\_\_\_\_ | **Circle C =** \_\_\_\_\_\_\_ |

|  |
| --- |
| **Explain** the strategies that you used to estimate the area:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Calculate** the area and circumference for this circle

Area = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Circumference = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Area = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Circumference = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**8 cm**

Area = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Circumference = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**1.** If I offered you 3 small pies each with a radius of 8 cm or 1 large pie with a radius of 15 cm, which offer would you take?

|  |
| --- |
| Show your work here:  Area of one 8-cm radius pie = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Area of three 15-cm radius pies = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  I would choose \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ . |

**2.** I used 240 cm of plastic tubing to make a hoola hoop. What is the radius of the hoola hoop?

|  |
| --- |
| Show your work here:  Radius of the hoola hoop = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**3.** A student was asked to calculate the area and perimeter of a circle with a radius of 5 cm. But the student needs your help! Help this student out by correcting as many mistakes as you can find!