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

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

**1 square = 1 cm2**

**A**

**B**

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

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

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

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

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

**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?

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| Area of one (15-cm radius) pie = \_\_\_\_ X \_\_\_\_ X \_\_\_\_Area of one (15-cm radius) pie = \_\_\_\_ X \_\_\_\_ X \_\_\_\_Area of one (15-cm radius) pie = \_\_\_\_\_\_\_\_\_\_\_\_Area of **one** (8-cm radius) pie = \_\_\_\_ X \_\_\_\_ X \_\_\_\_Area of **one** (8-cm radius) pie = \_\_\_\_ X \_\_\_\_ X \_\_\_\_Area of **one** (8-cm radius) pie = \_\_\_\_\_\_\_\_\_\_\_\_Area of **three** (8-cm radius) pies = \_\_\_\_ X \_\_\_\_Area of **three** (8-cm radius) pies = \_\_\_\_\_\_\_\_\_\_\_\_I would choose **three** (8-cm radius) pies OR **one** (15-cm radius) pie (**circle one option)**  because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ . |

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

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| The 240 cm of plastic tubing is the radius OR diameter OR circumference (**circle one option**)of the hoola hoop.To calculate the diameter of the hoola hoop:Diameter = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ÷ \_\_\_\_\_Diameter = \_\_\_\_\_ ÷ \_\_\_\_\_Diameter = \_\_\_\_\_\_\_\_\_\_\_\_Radius = diameter ÷ \_\_\_\_\_Radius = \_\_\_\_\_ ÷ \_\_\_\_\_Radius = \_\_\_\_\_\_\_\_\_\_\_\_The radius of the hoola hoop is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |