**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**

**C**

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

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| **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?

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| 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?

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| 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!