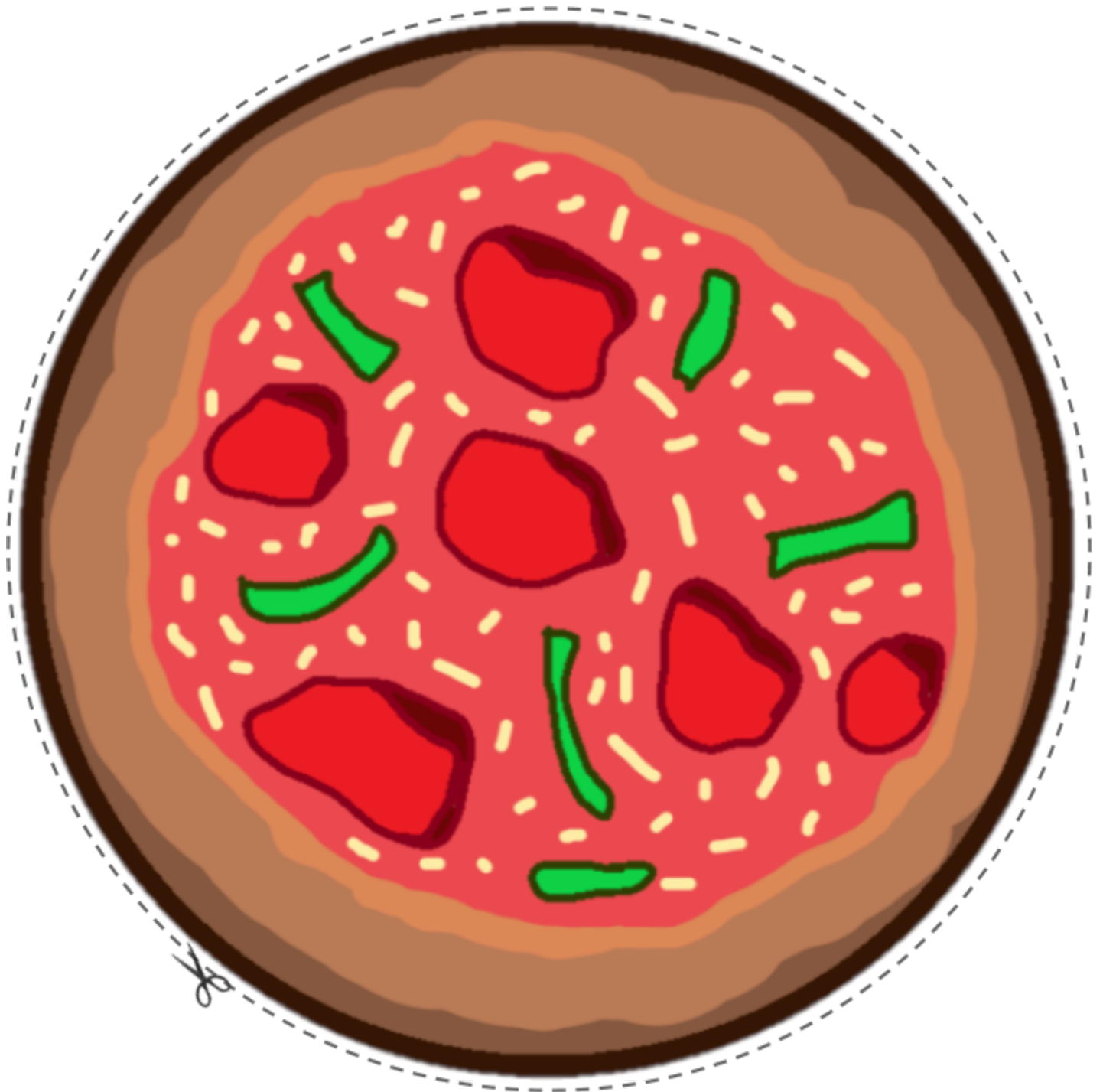


# Pizza Pie Template

Calculate pi - the circumference of a circle to its diameter - using pizzas.  
Print & cut out the template to get started.



Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

# Calculating pi

**Directions:** Please answer the following questions.

1. What is the diameter of a single pizza pie?
2. What is the circumference of this pizza?
3. Calculate the ratio of the circumference to the diameter for a single pizza.  
Show your work.
4. Now make a large circle with the class. A chalk and string can be used or a large hula hoop. How many pizzas make up the circle's diameter?  
(Hint: don't forget decimals/ fractions!)
5. How many pizzas make up the circle's circumference?
6. What is the ratio of the circumference to the diameter?
7. How close is your ratio to the actual value of pi?
8. List and explain any sources of error that may have affected your calculation.

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

# Calculating pi

## Bonus Question:

9. Consider accuracy - How many decimal places did you measure out to?  
Calculate the margin of error.

$$\% \text{ error} = \frac{|approx - exact|}{exact} \times 100$$

10. Calculate the ratio of of the circumference to the diameter for at least 5 other circular objects that you can find. Record your results here.