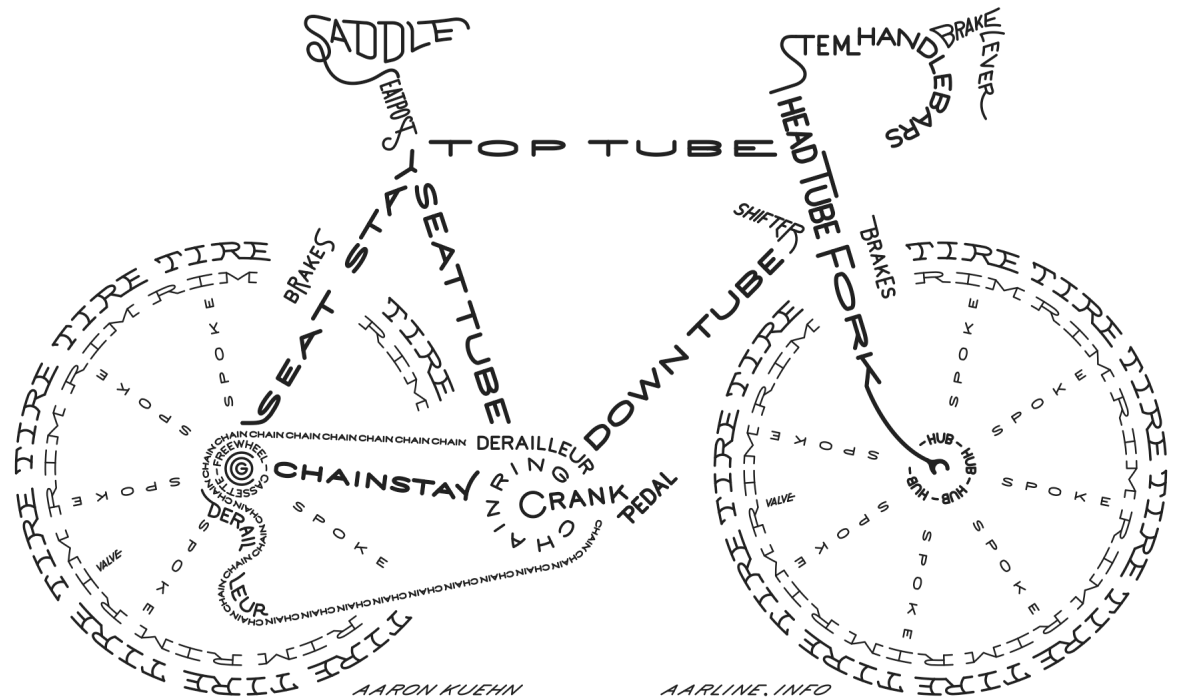


# HOW MANY SIGNIFICANT DIGITS?

1,500 mm

- 2 significant digits



# HOW MANY SIGNIFICANT DIGITS?

50 miles

- 1 significant digit



# HOW MANY SIGNIFICANT DIGITS?

50. miles

- 2 significant digits



# HOW MANY SIGNIFICANT DIGITS?

20.5 mm

- 3 significant digits



# HOW MANY SIGNIFICANT DIGITS?

0.0013 km

- 2 significant digits



# HOW MANY SIGNIFICANT DIGITS?

0.0110 m

- 3 significant digits



# HOW MANY SIGNIFICANT DIGITS?

10 Elephants

- An infinite number



If you have a group of 221 people and 10 people join them, how many people are there altogether?



Exactly 231





If you have a cup of coffee that is about 200 mL and you add 0.05 ml of coffee, how much coffee do you have?

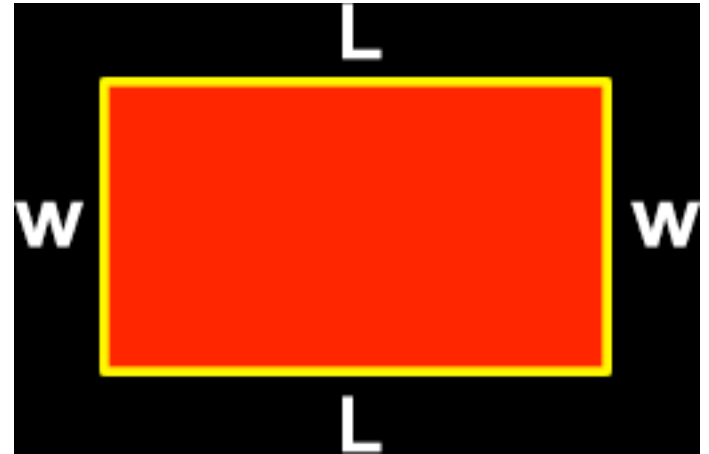
A. 200.05 mL of coffee

or

B. About 200 mL of coffee



The length of this rectangle is 20.25 cm and its width is 11.15 cm.



What is the area?  
(area = length x width)

A. 225.7875 cm<sup>2</sup>

or

B. 225.8 cm<sup>2</sup>



- Worksheet: “Using Significant Digits in Calculations

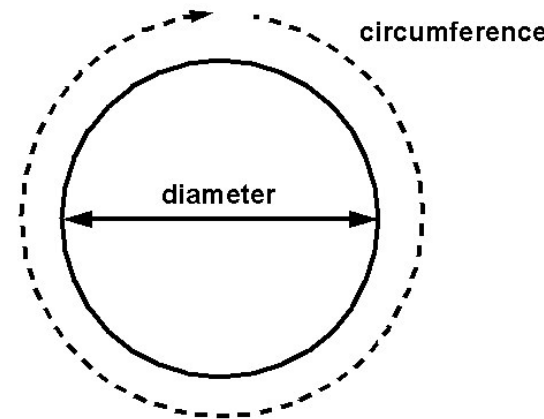




# MEASUREMENT FUN!

# PENNY

- What is the diameter of your penny in millimeters? **Be sure to use the correct units!**
- 19 mm
- What is circumference of your penny? Be sure to use the correct number of significant digits in your answer.
- Circumference = diameter x pi
- Pi = 3.14
- $19 \text{ mm} \times 3.14 = 59.66 \text{ mm}$
- Round to 60. mm



# TOOTHPICK

- How long is your toothpick in millimeters? **Be sure to use the correct units!**

- 65 mm

- Significant digits?

- 2



- How long is your toothpick in cm?

- 6.5 cm

- Significant digits?

- 2

- How long is your toothpick in meters?

- 0.065 m

- Significant digits?

- 2

# TOOTHPICK

- How long would 2 toothpicks be in mm? (Find the length by addition, not by measuring.)

- 130. mm
- Significant digits?
- 3



- What is the length of the two toothpicks in m?

- 0.130
- Significant digits?
- 3

