

# Dimensional Analysis Pizza

Name \_\_\_\_\_

Chemistry

Date \_\_\_\_\_ Hour \_\_\_\_\_

What is dimensional analysis?

What is a conversion factor? Provide a few examples.

- A tool in dimensional analysis used to \_\_\_\_\_ from one \_\_\_\_\_ to \_\_\_\_\_.
- These are \_\_\_\_\_ values - They \_\_\_\_\_ change.
- They have an infinite number of sig figs. (rule 5)

What does S.U.C.S. stand for?

**S**tart → What \_\_\_\_\_ and \_\_\_\_\_ are you starting with?

**U**nknown → What \_\_\_\_\_ are you trying to get to?

**C**onversion Factor(s) → How are you going to get there?

- Select a conversion factor that \_\_\_\_\_ out the unit on top.
- If needed, select another conversion factor. Continue to cancel units until you have the ending unit.

<b>Conversion Factors:</b>
1 box = 1 pizza
1 pizza = 12 slices
1 human = 4 slices
1 slice = 5 pieces of pepperoni
1 pizza = \$18.78

**S**etup & **S**olve → Math! Make sure all units \_\_\_\_\_!

- Multiply across the top. Multiply across the bottom. Divide the top and bottom.
- NO \_\_\_\_\_ !

## Practice!

1) If you have 4 pizzas, how many boxes would you need?

S: \_\_\_\_\_ U: \_\_\_\_\_ C: \_\_\_\_\_

S: \_\_\_\_\_

4 pizzas

2) If you invite 14 humans over for your super awesome party, how many slices of pizza would you need?

S: \_\_\_\_\_ U: \_\_\_\_\_ C: \_\_\_\_\_

S: \_\_\_\_\_

56 slices

