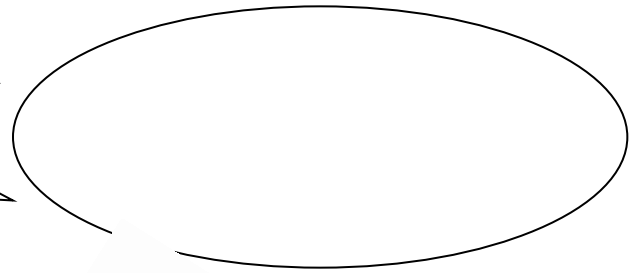
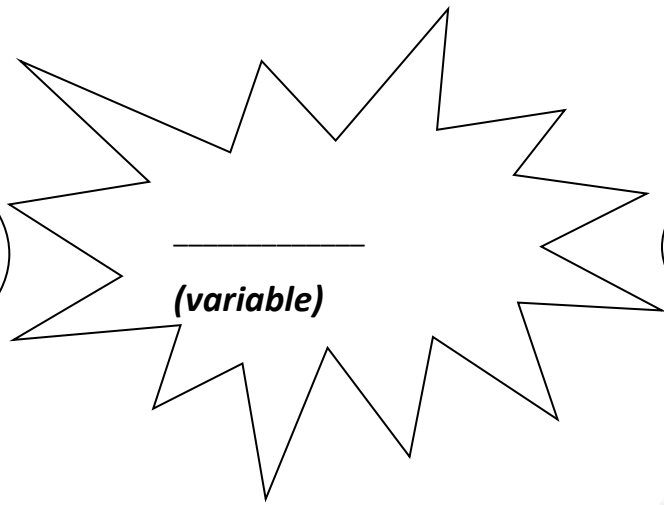
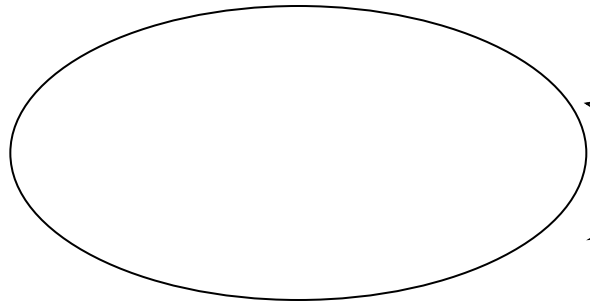


# Definitions

- Controlled experiment
  - an experiment that has 2 groups to compare and only ONE variable (difference)
- Control Group
  - the group in an experiment that does NOT get the treatment
- Experimental Group
  - the group in an experiment that DOES get the treatment
- Variable
  - the ONE difference between the 2 groups
- Constant
  - the factors (things) that remain the SAME between the 2 groups



**Constants:**

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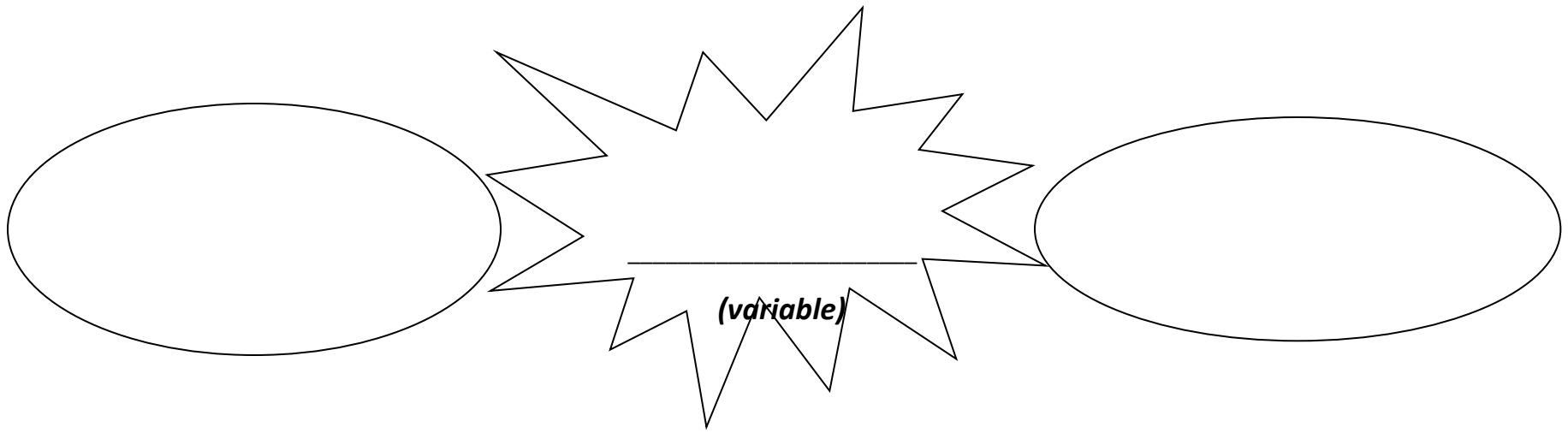
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# CONSTANTS

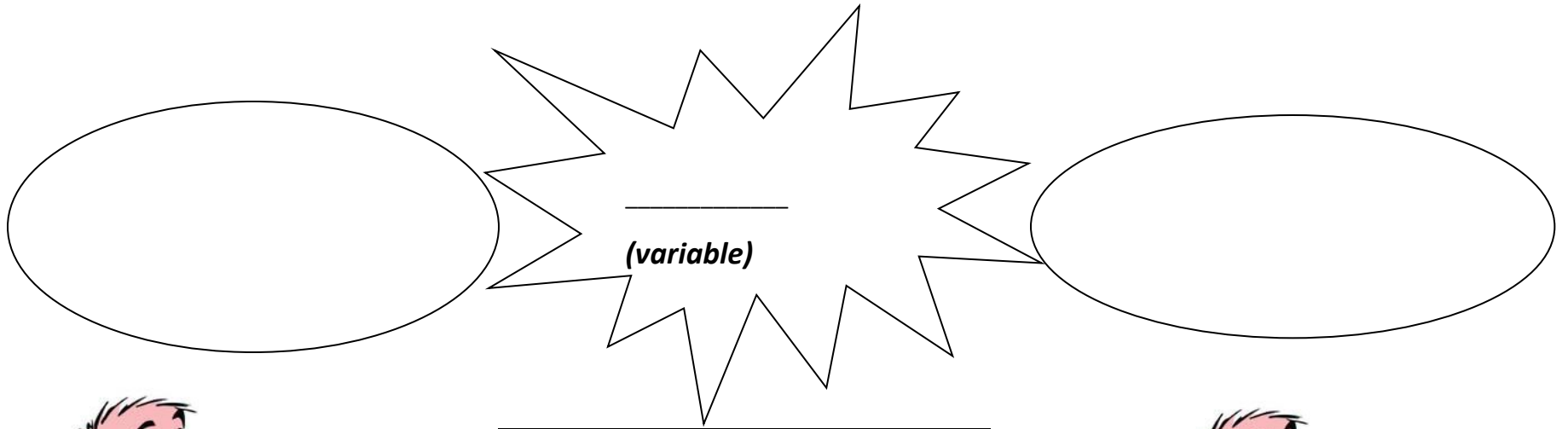


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**Question:** Does eating  
your vegetables really  
help you grow up to be  
bigger and stronger?

**Question:** Does eating your vegetables really help you grow up to be bigger and stronger?



**Constants:**

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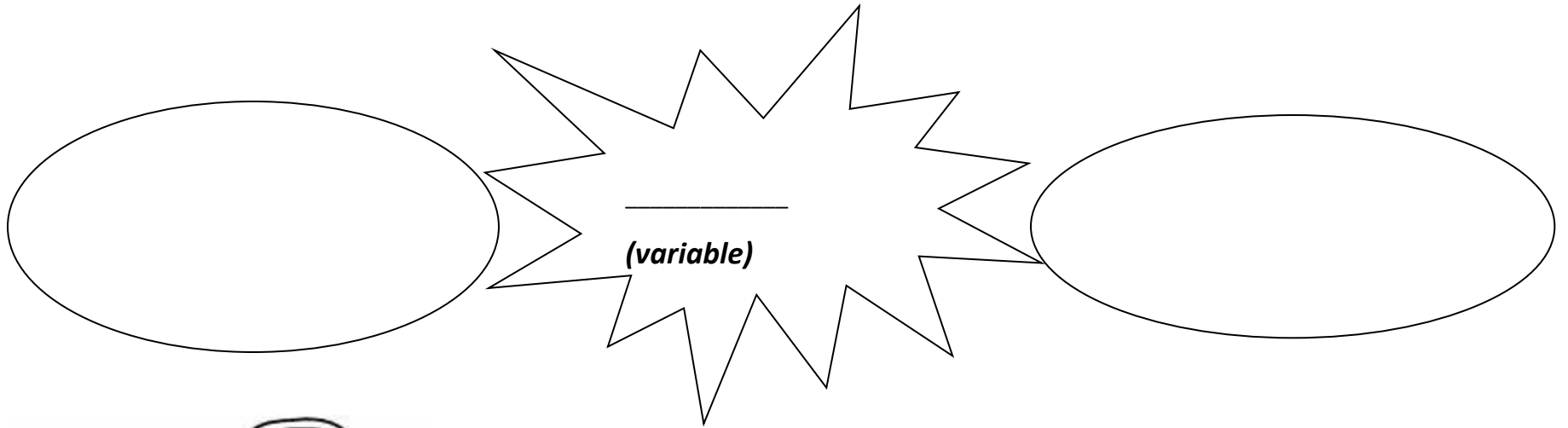
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**Question: Does wearing eye-black during a baseball game really help baseball outfielders to catch more pop-flys?**

**Question:** Does wearing eyblack during a baseball game really help baseball outfielders to catch more pop-flys?



**Constants:**

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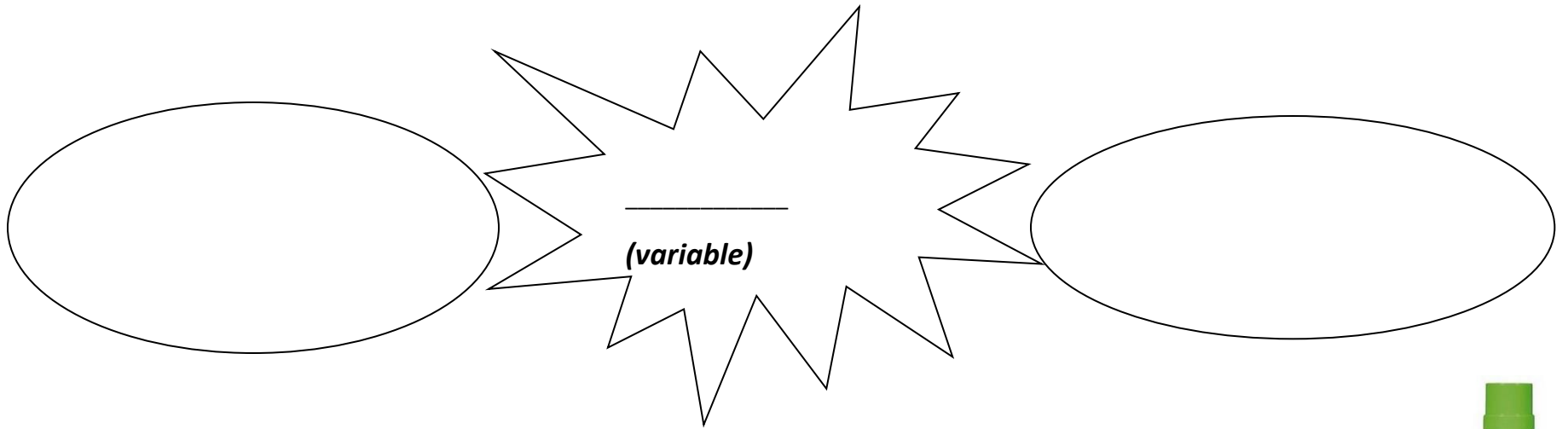
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**Question: Does  
stainstick really help  
get stains on clothing  
out faster in the  
wash?**



**Question:** Does stainstick really help get stains on clothing out faster in the wash?



**Constants:**

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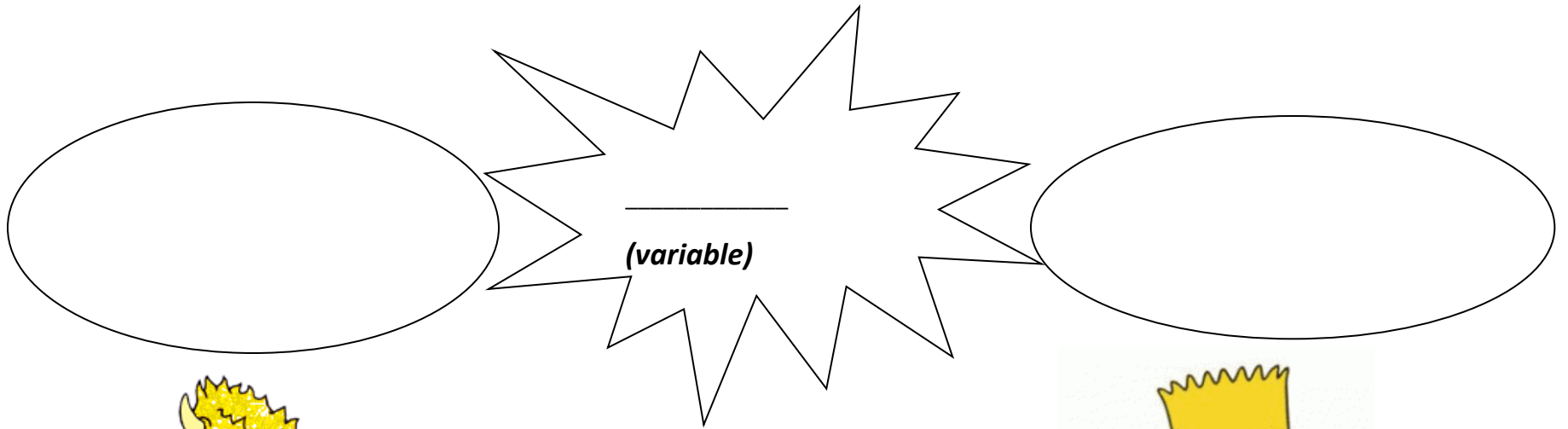
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**Question:** Will trick-or-treating without a costume earn you less candy?

**Question:** Will trick-or-treating without a costume earn you less candy?



**Constants:**

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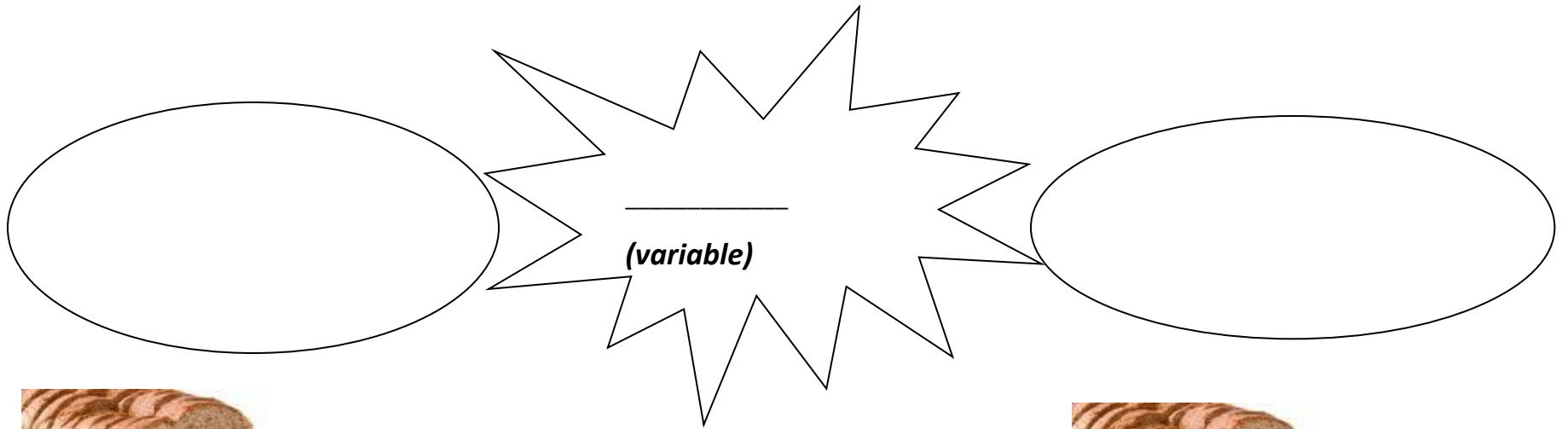
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**Does toasting bread  
make it last longer?**

**Question:** Does toasting bread make it last longer?



**Constants:**

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**Question:** Does toasting bread make it last longer?

What's wrong??

Bread that has been toasted

\_Toasting\_  
*(variable)*

Bread without toasting



**Constants:**

\_\_\_ type of bread \_\_\_

\_\_\_ age of bread

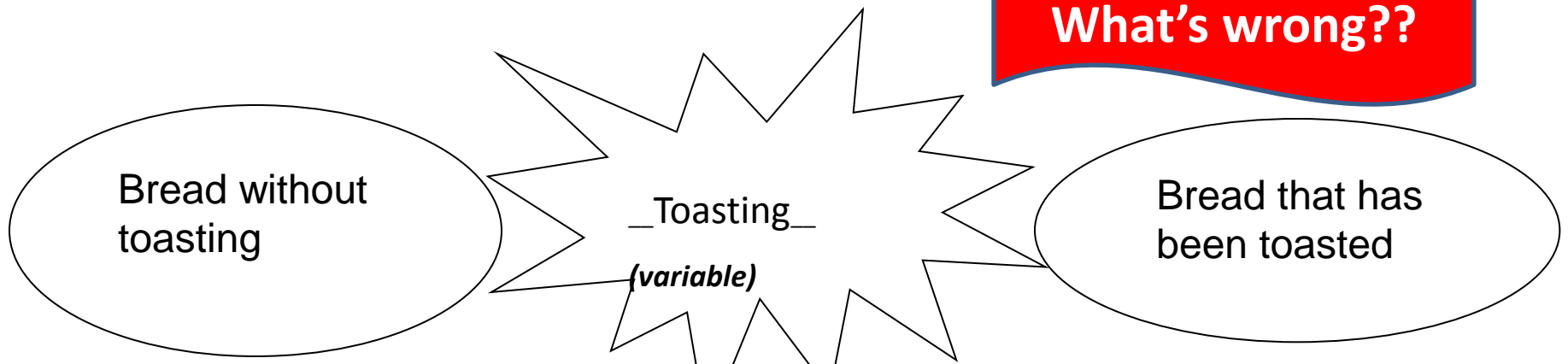
\_\_\_ where the bread is kept \_\_\_

\_\_\_\_\_



**Question:** Does toasting bread make it last longer?

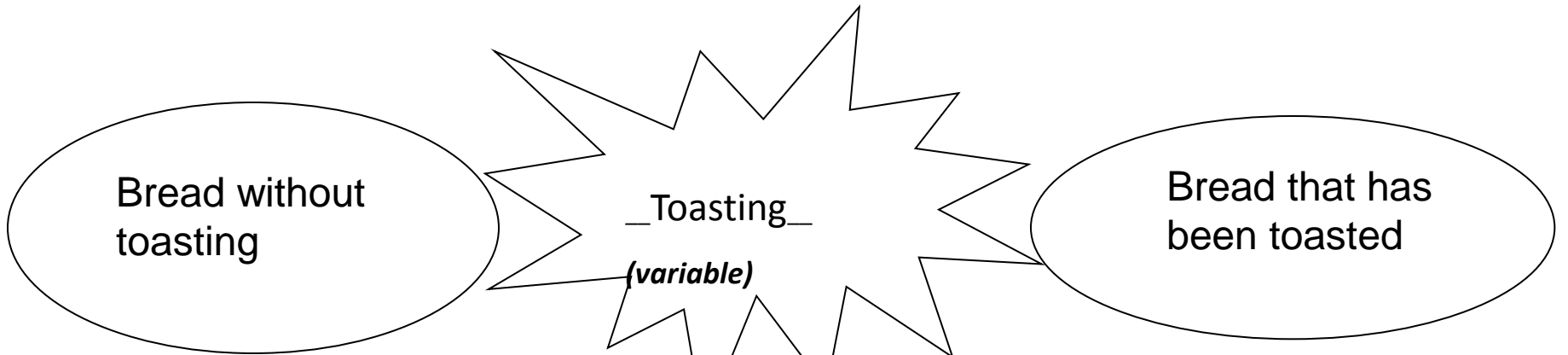
**What's wrong??**



- Constants:**
- \_\_\_ type of bread \_\_\_
  - \_\_\_ age of bread \_\_\_
  - \_\_\_ type of toaster \_\_\_
  - \_\_\_\_\_



**Question:** Does toasting bread make it last longer?



**Constants:**

\_\_\_ type of bread \_\_\_

\_\_\_ age of bread \_\_\_

\_\_\_ where the bread is kept \_\_\_

\_\_\_\_\_

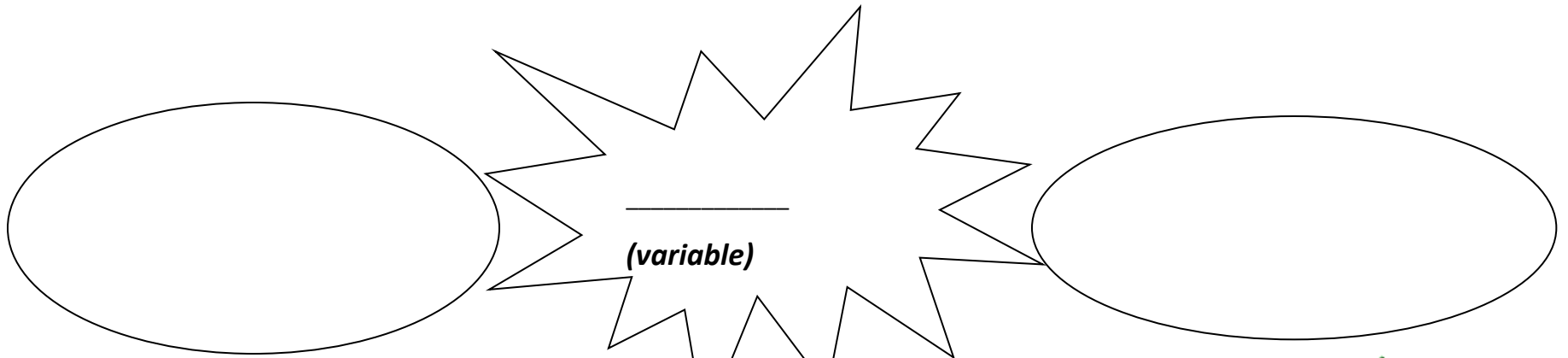






**Will an apple rot  
faster if a bite is  
taken from it?**

**Question:** Will an apple rot faster if a bite is taken from it?



**Constants:**

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**Question:** Will an apple rot faster if a bite is taken from it?

**What's wrong??**

Apple without  
any bites

\_Bite out of apple\_  
*(variable)*

Apple with bite



**Constants:**

\_\_\_type of apple\_\_\_

\_\_\_how fast the apple rots

\_\_\_where they are kept\_\_\_

\_\_\_\_\_



**Question:** Will an apple rot faster if a bite is taken from it?

**What's wrong??**

Apple without  
any bites

\_Apple\_  
*(variable)*

Apple with bite



**Constants:**

\_\_type of apple\_\_

\_\_age of apple

\_\_where they are kept\_\_

\_\_\_\_\_



**Question:** Will an apple rot faster if a bite is taken from it?

Apple without any bites



\_Bite out of apple\_

*(variable)*

Apple with bite



**Constants:**

\_\_\_type of apple\_\_\_

\_\_\_age of apple

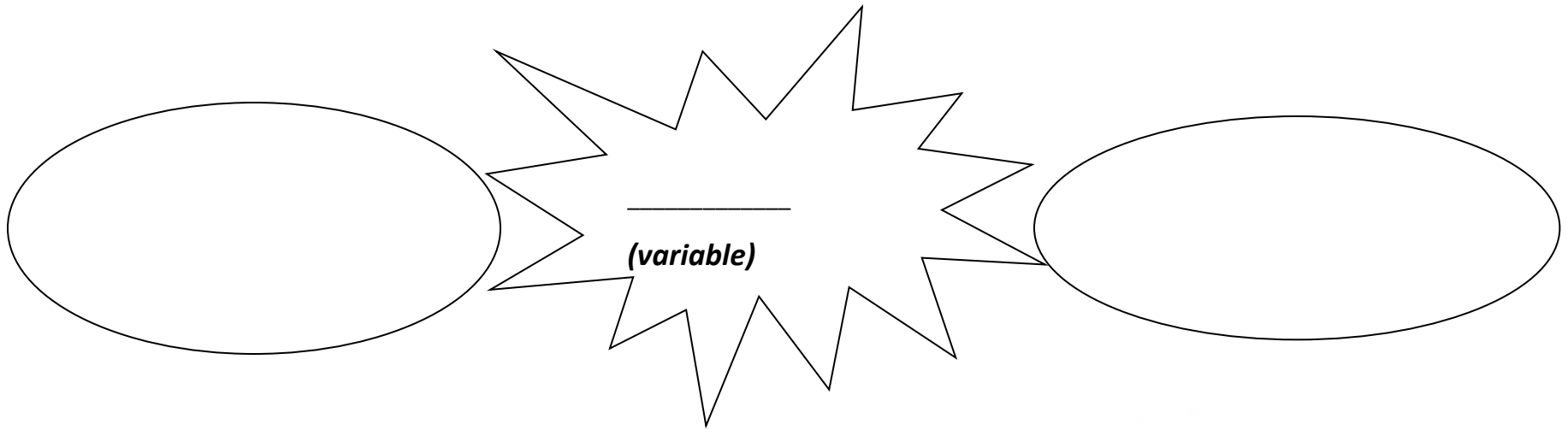
\_\_\_where they are kept\_\_\_

\_\_\_\_\_

**If I add sugar to  
water, does it make  
water freeze faster?**



**Question:** If I add sugar to water, does it make water freeze faster?



**Constants:**

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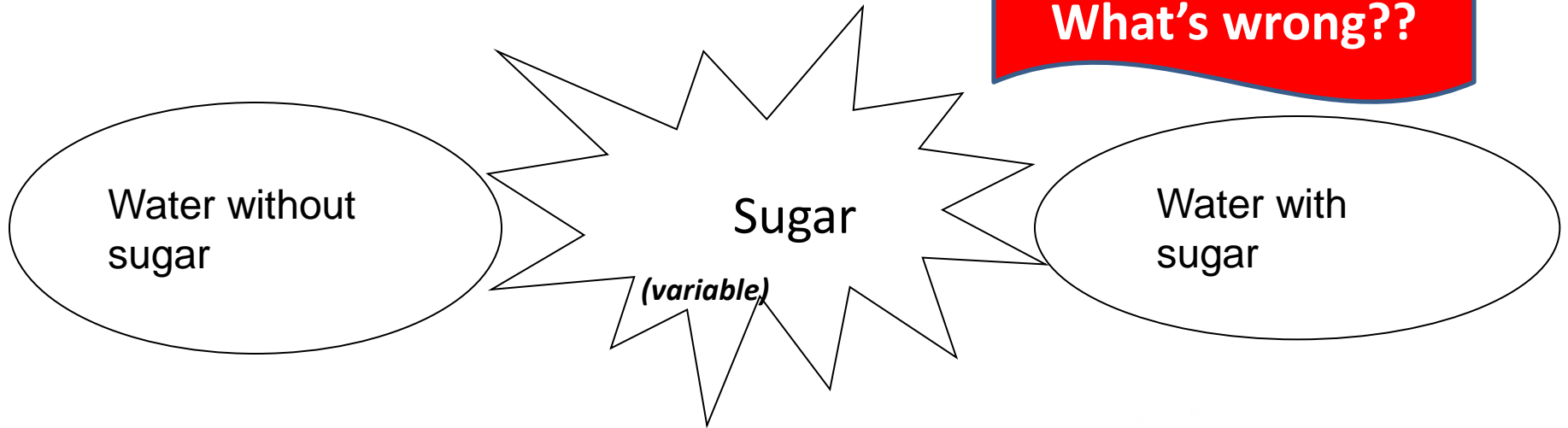
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**Question:** If I add sugar to water, does it make water freeze faster?

What's wrong??



**Constants:**

\_\_\_ amount of sugar \_\_\_

\_\_\_ ice cube tray \_\_\_

\_\_\_ freezer temperature \_\_\_

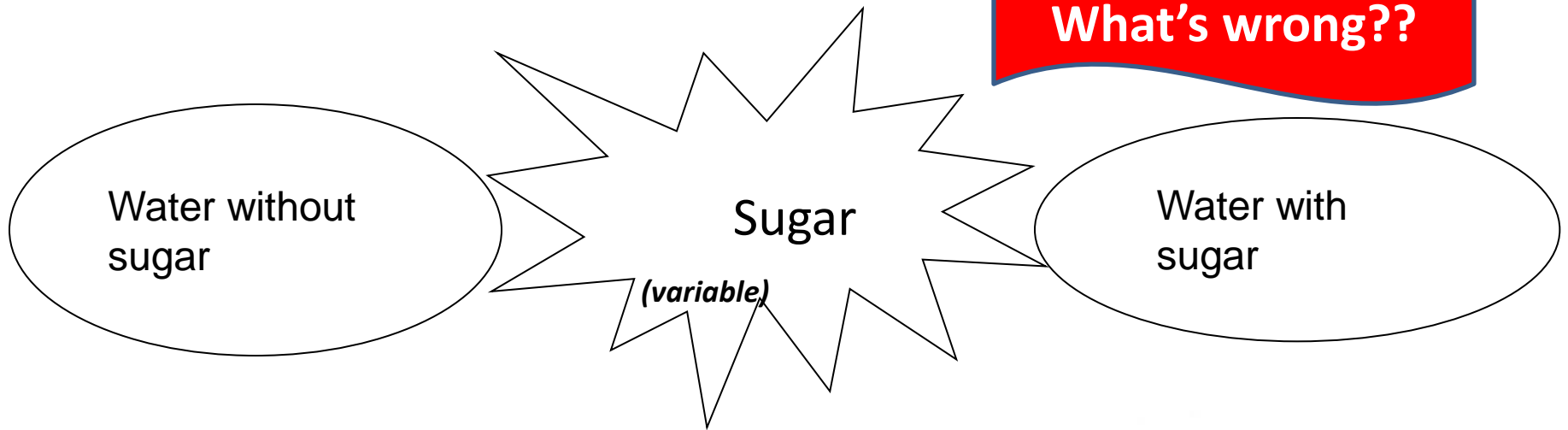
\_\_\_\_\_





**Question:** If I add sugar to water, does it make water freeze faster?

What's wrong??



**Constants:**

\_\_\_ amount of water \_\_\_

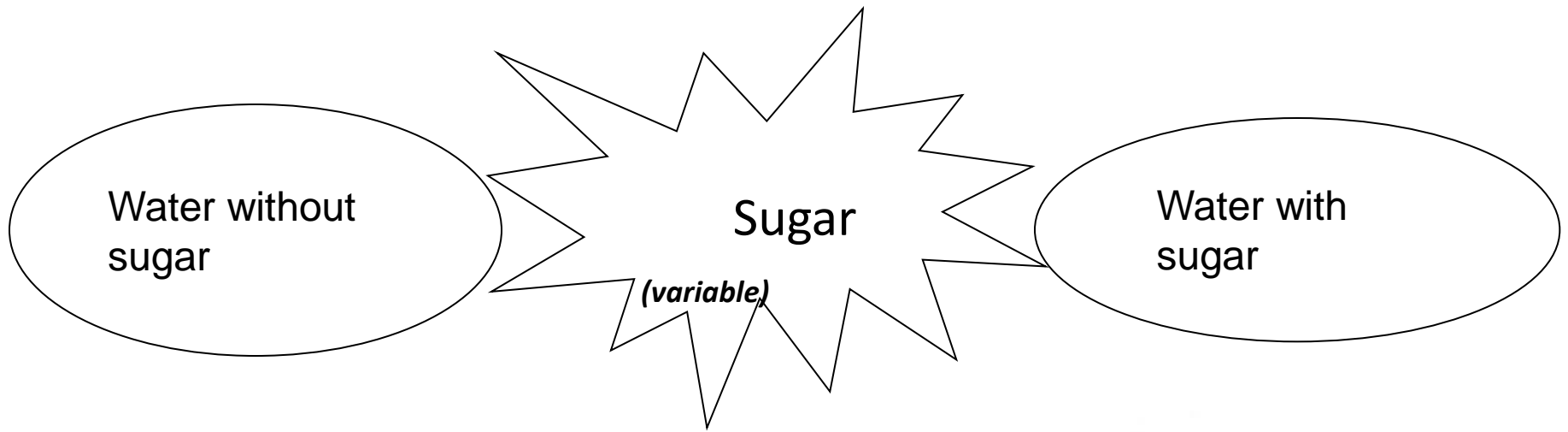
\_\_\_ ice cube tray \_\_\_

\_\_\_ time to freeze \_\_\_

\_\_\_\_\_



**Question:** If I add sugar to water, does it make water freeze faster?



**Constants:**

\_\_ amount of water \_\_

\_\_ ice cube tray \_\_

\_\_ freezer temperature \_\_

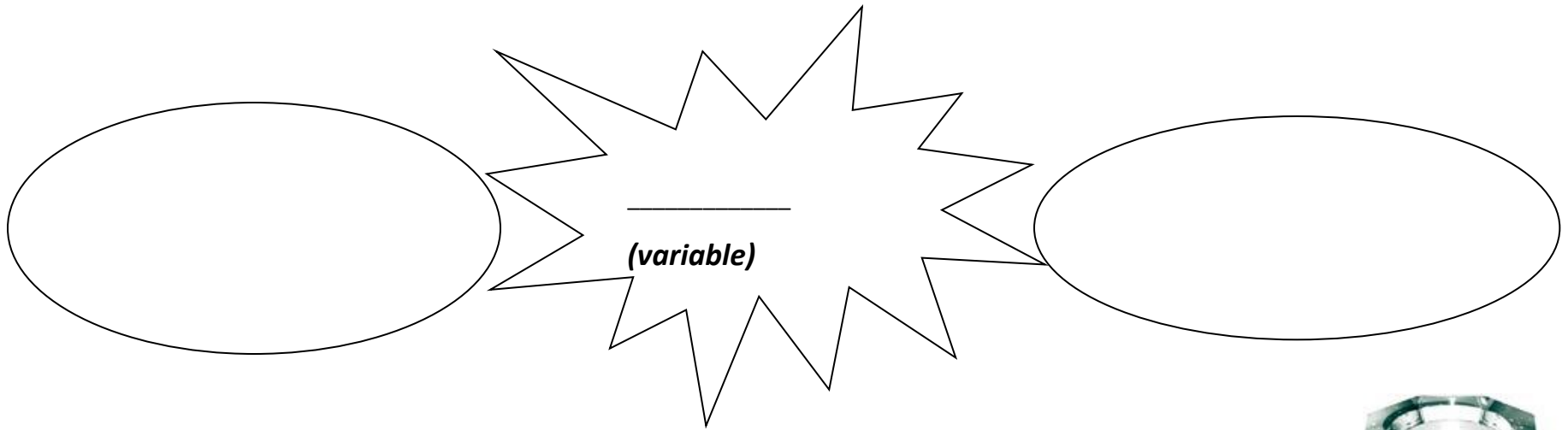
\_\_\_\_\_



**Does a candle flame  
burn out faster when  
covered with a glass?**



**Question:** Does a candle flame burn out faster when covered with glass?



**Constants:**

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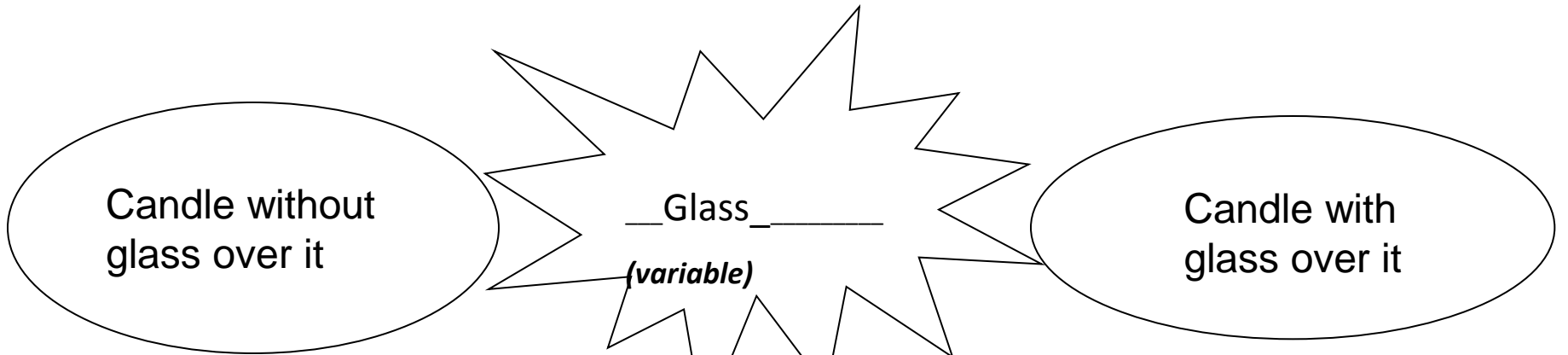
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**Question:** Does a candle flame burn out faster when covered with glass?



**Constants:**

     type of candle     

     length of wick     

     temperature in the room     

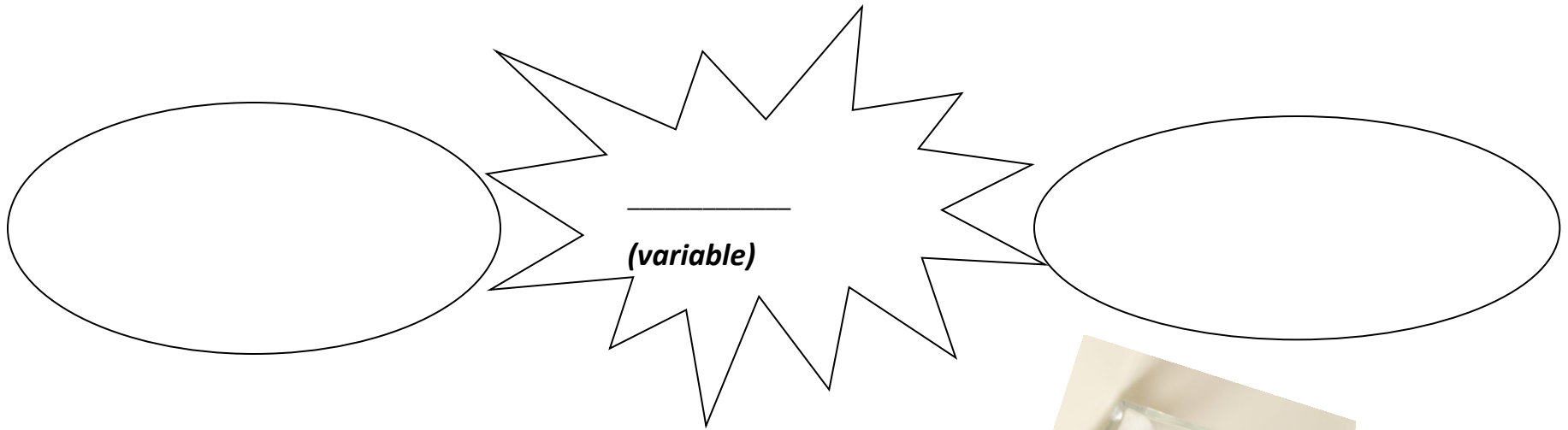
    



**If I add salt to water,  
will it make the water  
boil faster?**



**Question:** If I add salt to water, will it make the water boil faster?



**Constants:**

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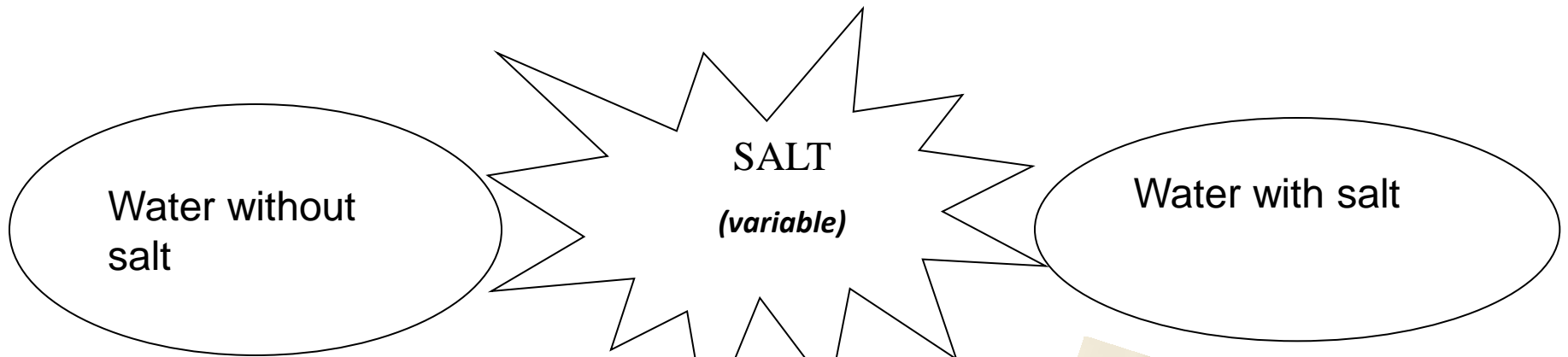
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**Question:** If I add salt to water, will it make the water boil faster?



**Constants:**

\_\_\_\_\_ amount of water \_\_\_\_\_

\_\_\_\_\_ pan on the stove \_\_\_\_\_

\_\_\_\_\_ temp of the burner \_\_\_\_\_

\_\_\_\_\_

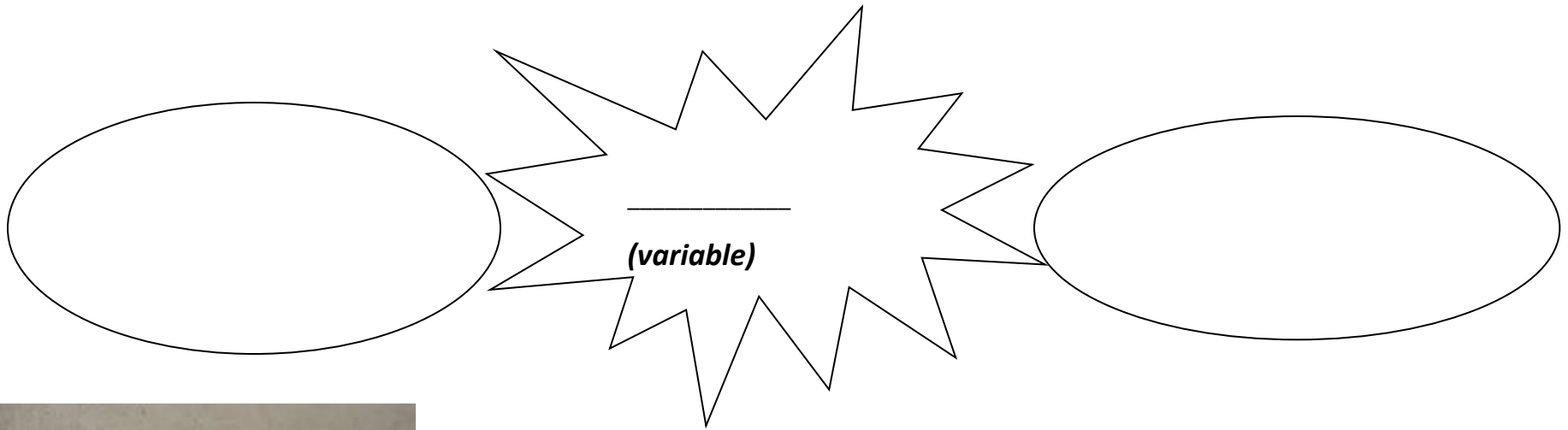




**If I take the cap off  
of a marker, will it  
dry out faster?**



**Question:** If I take the cap off of a marker, will it dry out faster?



**Constants:**

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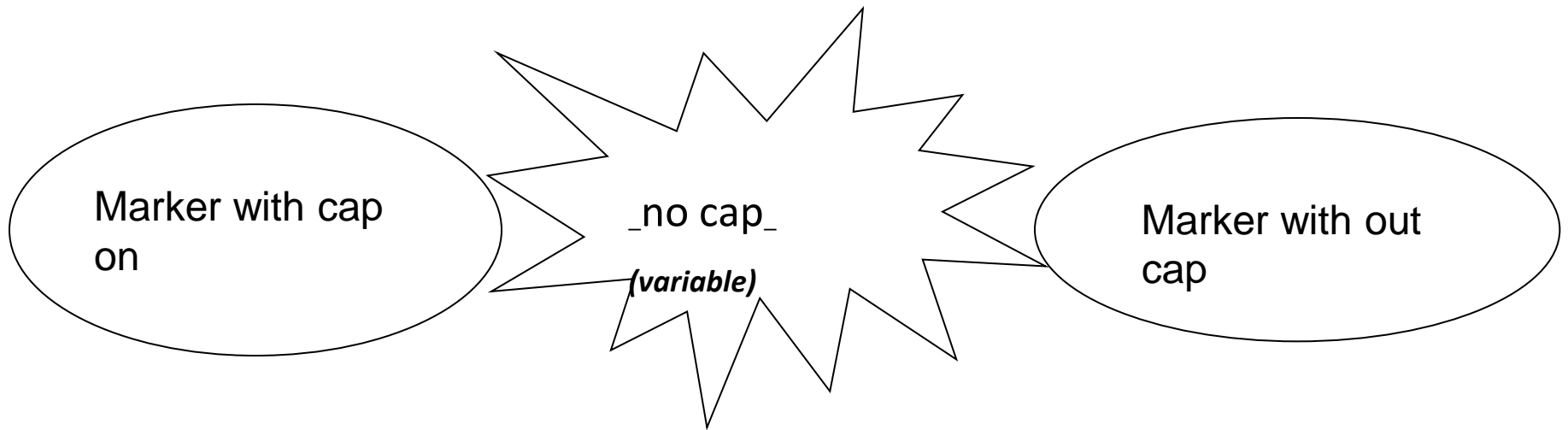
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**Question:** If I take the cap off of a marker, will it dry out faster?



**Constants:**

\_\_type of marker

\_\_age of marker\_\_

\_\_place they are kept in\_\_

\_\_\_\_\_

