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| mark-it-up conversion factorsEast H. S. Cλ3MIs+rγ Mr. Genest |  | Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Tutors! Adults! Help this young chemist by visiting **http:genest.weebly.com** with any smart phone |

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| #1 Step One: Underline the starter unit (the unit that is not paired with another unit.Circle pairs of units. Draw a box around the goal unit. If thorium is 11.7 grams per mL, what is the mass of 35.2 mL of thorium? (This is the question from last week's quiz)

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| Step Two: Write down the important info here. |
| What's the starter number? |
| What is the goal unit? |
| Write all the 'for every' statements that will make useful conversion factors. |

Step Three: Solve below using dimensional analysis. Write words before you write numbers. | #2Step One: Underline the starter unit (the unit that is not paired with another unit.Circle pairs of units. Draw a box around the goal unit. What is the volume in cm3 of 400. grams of ethanol? Ethanol has a density of 0.789 g/mL. (This was on last week's cowboy sheet)

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| Step Two: Write down the important info here. |
| What's the starter number? |
| What is the goal unit? |
| Write all the 'for every' statements that will make useful conversion factors. |

Step Three: Solve below using dimensional analysis. Write words before you write numbers. |

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| #3 Step One: Underline the starter unit (the unit that is not paired with another unit.Circle pairs of units. Draw a box around the goal unit. Pearl is planning a party for the defensive team of the Wisconsin Badgers (11 people). She wants to order enough lasagna so that every player can have 5 pieces. When she calls the restaurant, they tell her that a large lasagna is cut into 9 pieces and costs $34.18. How much money will Pearl need in order to feed all of her guests?

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| Step Two: Write down the important info here. |
| What's the starter number? |
| What is the goal unit? |
| Write all the 'for every' statements that will make useful conversion factors. |

Step Three: Solve below using dimensional analysis. Write words before you write numbers. | Picture#4Step One: Underline the starter unit (the unit that is not paired with another unit.Circle pairs of units. Draw a box around the goal unit. What will be the mass in grams of a 842 mL aluminum unicorn? You need to find slope from the above graph to make a conversion factor.

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| Step Two: Write down the important info here. |
| What's the starter number? |
| What is the goal unit? |
| Write all the 'for every' statements that will make useful conversion factors. Strategy: You will need the slope from the above graph. |

Step Three: Solve below using dimensional analysis. Write words before you write numbers. |