

Learning Target: I will be able to convert from particles to moles to grams and vice versa.



Mole Conversions Video Notes

1. What does the word mole come from? _____
2. What are the two reasons we use mole? _____
3. 1 dozen eggs = _____ ounces, 1 dozen = _____ eggs
4. Complete the eggs conversion below as shown in the video.



5. 1 mole = _____ mass (g)
- 1 mole = _____ particles
6. H = _____ + H = _____ + O = _____ mass of 1 mole of water = _____

7. Complete the moles conversion below as shown in the video.



8. Convert .200 moles of H2SO4 to grams. Which conversion are you going to use? _____

Write the factor label method as shown in the video at 5:45 seconds.

Find the molar mass of H2SO4 to use in problem above.

$$\text{H}_2 (2 \times 1.01) + \text{S} (32.06) + \text{O}_4 (4 \times 16) = 1 \text{ mole of } \text{H}_2\text{SO}_4 = \underline{\hspace{10cm}}$$

$$.200 \text{ moles of } \text{H}_2\text{SO}_4 \text{ to grams} = \underline{\hspace{10cm}}$$

Created By: Chivas & Jordan Spivey

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9. Convert 102.8 grams of water to molecules. Which conversions are you going to use? _____

Write the factor label method as shown in the video at 5:45 seconds.

102.8 grams of water to molecules = _____

10. CHECK FOR UNDERSTANDING:

Convert 200g of H_2O to molecules. Which conversions are you going to use? _____

Use the factor label method as shown in the video to solve.

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