

Weighted Average Performance Task - Chapter 2

Below are a list of Weighted Average or Mixture problems. Your mission is to **CHOOSE ONE PROBLEM** and **CHOOSE ONE METHOD** to explain it using one of the methods listed. Be sure to follow the rubric on the back of this sheet.

**CHOOSE ONE PROBLEM BELOW:**

- 1) A mixture of 10% acid and 90% water is added to 5 liters of pure acid. The final mixture is 40% water. How many liters of water are in the final mixture.
- 2) How many liters of 40% orange juice must be added to 12 liters of a 20% juice mixture to obtain a 25% mixture.
- 3) Nature Drinks Co. wants to combine orange juice they sell for 9 cents per ounce with guava juice they sell for 14 cents per ounce to create an orange-guava drink. How many ounces of orange juice should they use to create a 10 oz. drink that would sell for \$1.74.
- 4) Terri begins walking east at 2 mph at 1:00 PM. If Cindy leaves from the same point 30 minutes later walking east at 3 mph, what time will she catch up to Terri?

**CHOOSE ONE METHOD BELOW:**

POSTER	VIDEO	EDUCREATIONS APP
PRESENTATION	ACT IT OUT	OTHER (check with your teacher)

	3	2	1	0
<b>Explanation of Work (Words)</b>	<p>The original question is written on the poster/ diagram OR is shown at the begging of the presentation</p> <p>AND</p> <p>There is a step-by-step process clearly explained (in words).</p>	<p>There is a summary of the steps taken, but not all steps are explained</p> <p>OR</p> <p>The explanation of your process is not organized, and there a few are grammar/writing errors or the original question is missing</p>	<p>Only a few steps are explained.</p> <p>AND</p> <p>The explanation of your process has major spelling/ writing errors</p>	<p>No explanation included</p>
<b>Work (mathematical equations/work)</b>	<p>All math work is seen, and it is organized/legible.</p>	<p>Most of the math work is shown, but missing a few steps</p>	<p>A little math work is shown</p>	<p>No math work is shown</p>
<b>Accuracy</b>	<p>All math work is done correctly, and the answer to the question is correct with correct units</p>	<p>All math work is done correctly, and the answer to the question is correct but there are no units in the final answer/units in the final answer are incorrect</p> <p>OR</p> <p>There is a mistake in the math work</p>	<p>There are a few small errors in the math work</p>	<p>There are major errors in the math work</p>
<b>Visual Appeal</b>	<p>Work was done, and finished in permanent ink. Everything is legible and clear</p> <p>OR</p> <p>Presentation was clear, to the point, and presenter could answer all questions</p>	<p>Work is done, and finished in permanent ink, but not everything is legible.</p> <p>OR</p> <p>Work is done, but not finished in permanent ink.</p> <p>OR</p> <p>Presentation was mostly clear</p>	<p>The visual appeal OR presentation was unorganized and hard to follow</p>	<p>Everything done in pencil and a lot was not legible and was unorganized</p> <p>OR</p> <p>Presentation did not fit the question, and there was major disorganization</p>