

Amplifying Instructional Task – Grade 5 Example

The Original Task

Solve for products of decimals to the hundredths, including situations involving money, using strategies based on place-value understandings, properties of operations, and the relationship to the multiplication of whole numbers. 5(3)(E)

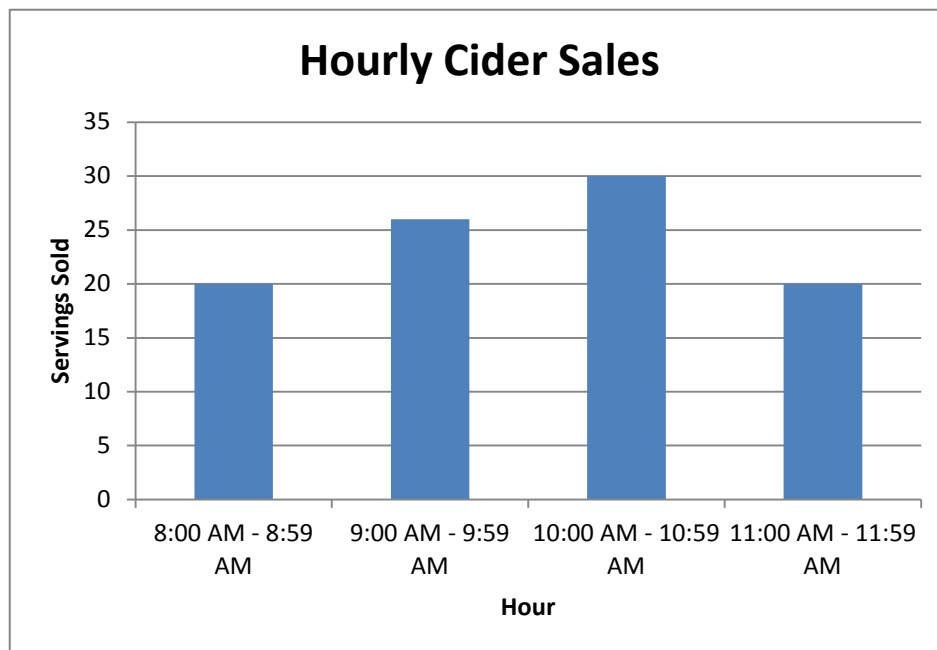
A local farmer bottles cider in 1.5 gallon bottles. If the farmer brings 6 bottles to the farmer's market to sell, how many gallons is she bringing to sell?

The Amplified Task

Materials to make available:
Reference Materials

Task A (Amplified Task):

A local farmer sold cider at the farmer's market. The farmer bottles her cider in 1.5 gallon bottles, and she brought 6 bottles of cider to the farmer's market. The graph below shows her hourly cider sales.

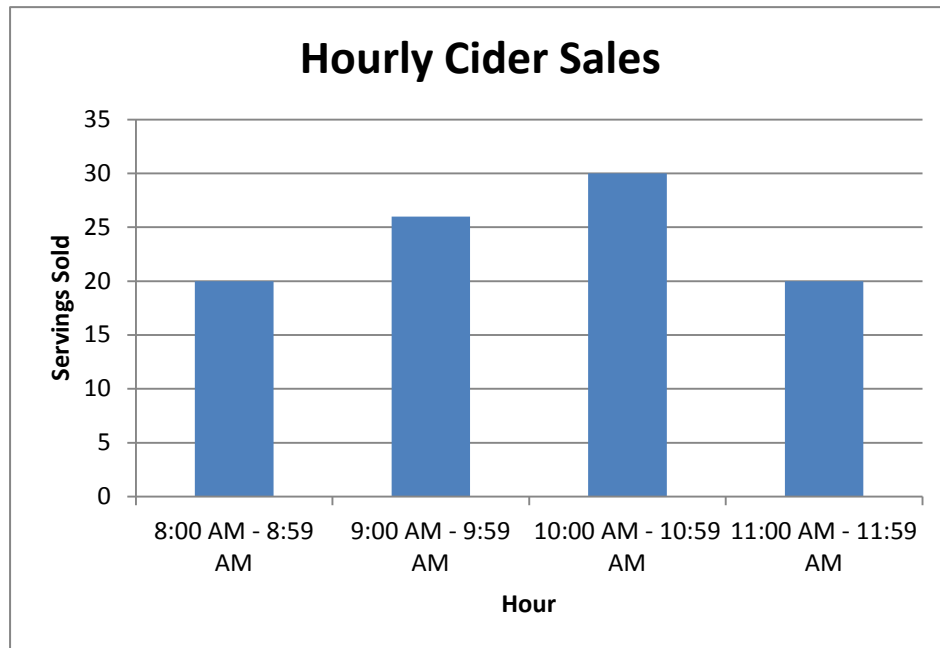


- If each serving of cider sold for \$3.50, how much was the farmer's total sales?
- If she sold all of her cider, how many fluid ounces were in each serving?
- Does the amount of the total sales represent her gross income or her net income? Explain your answer.

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Task B (Scaffolded Task):

A local farmer sold cider at the farmer’s market. The graph below shows her hourly cider sales.



- How many servings of cider did the farmer sell between 8:00 A.M. and 8:59 A.M.? 9:00 A.M. and 9:59 A.M.? 10:00 A.M. and 10:59 A.M.? 11:00 A.M. and 11:59 A.M.?
- If each serving of cider sold for \$3.50, how much was the farmer’s total sales?
- How many fluid ounces are in one 1.5 gallon bottle?
- If the farmer bottles her cider in 1.5 gallon bottles, and she brought 6 bottles of cider to the farmer’s market, how many fluid ounces of cider were in each serving?
- Does the amount of the total sales represent her gross income or her net income? Explain your answer.

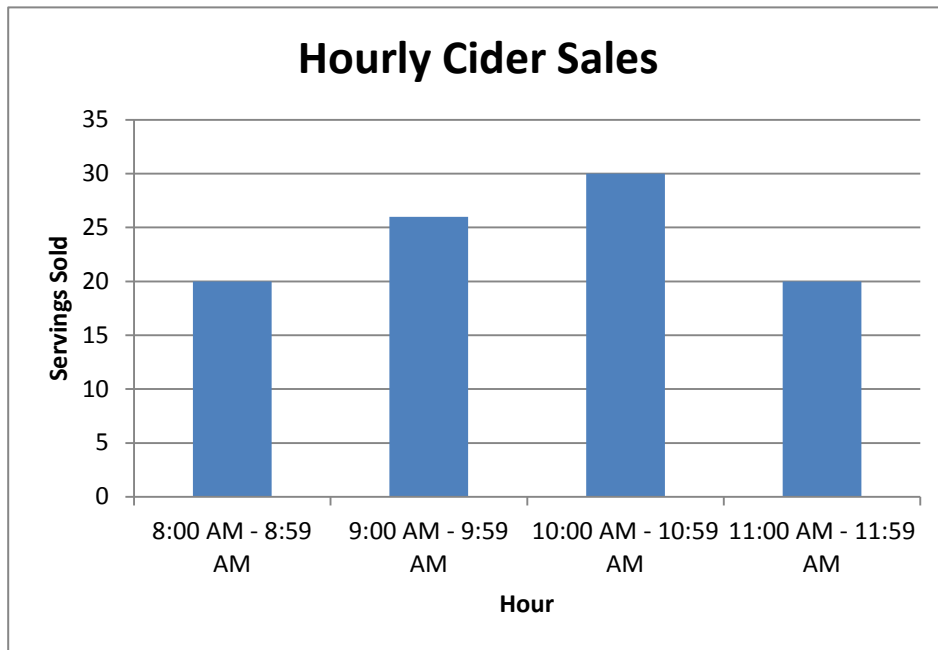
Bottles	Process	Total Number of Fluid ounces

Gross Income	The total amount of income
Net Income	The amount after expenses are deducted

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Task C (Scaffolded Task):

A local farmer sold cider at the farmer's market. The graph below shows her hourly cider sales.



- How many servings of cider did the farmer sell between 8:00 A.M. and 8:59A.M.? 9:00 A.M. and 9:59 A.M.? 10:00 A.M. and 10:59 A.M.? 11:00 A.M. and 11:59 A.M.?
- If each serving of cider sold for \$3.50, how much was the farmer's total sales?
- How many fluid ounces are in one 1.5 gallon bottle?
- If the farmer bottles her cider in 1.5 gallon bottles, and she brought 6 bottles of cider to the farmer's market, how many fluid ounces of cider were in each serving?
- Does the amount of the total sales represent her gross income or her net income? Explain your answer.

The total sales represent her _____
 income because _____

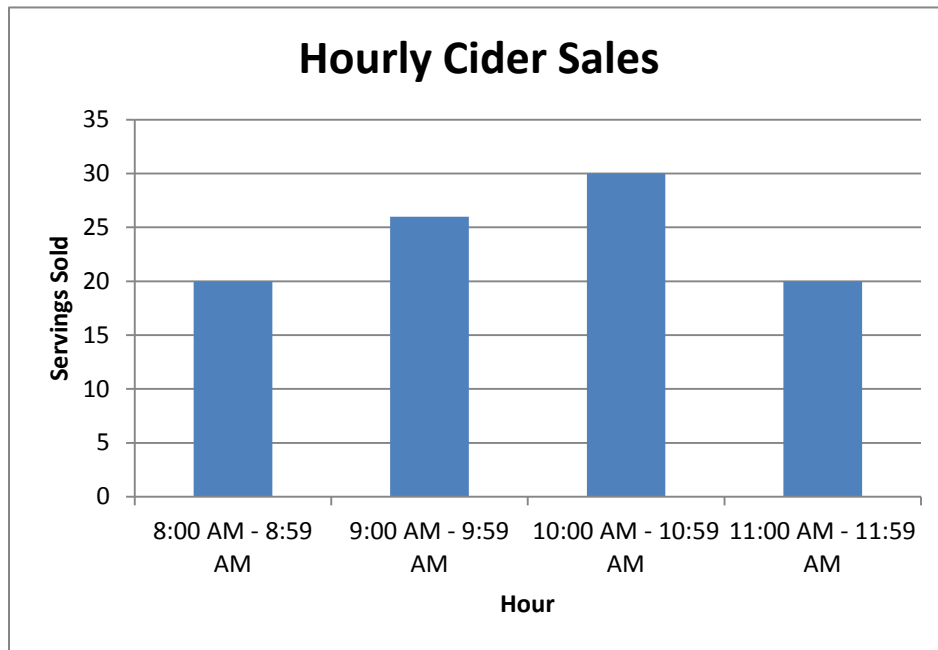
 _____.

Bottles	Process	Total Number of Fluid ounces
	Gross Income	The total amount of income
	Net Income	The amount of income after expenses are deducted

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Task D (Enriched Task):

A local farmer sold cider at the farmer's market. The farmer bottles her cider in 1.5 gallon bottles, and she brought 6 bottles of cider to the farmer's market. The graph below shows her hourly cider sales.



Expense	Cost
Cider Ingredients	\$24.00
Bottle (size 1.5 gallons)	\$1.75 each
1 pkg Bottle Labels	\$5.69
Hot Serve Cups (pkg of 25 cups with lids)	\$2.59 each
Gas for Car	\$13.56

- If the farmer sold all of her cider, how many fluid ounces of cider were in each serving?
- If each serving of cider sold for \$3.50, how much profit did she make? Explain to the farmer how you determined her profit.