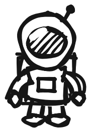
Luna's Space Adventure

Name ____________________

Grade 4 · Expenses and profit · 4.10B

Date ____________________



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Fixed or variable?

Fixed costs the same every month. Variable changes.

Movie tickets	**Fixed**	**Variable**	**Snacks**	**Fixed**	**Variable**
Streaming service	**Fixed**	**Variable**	**Gym membership**	**Fixed**	**Variable**

A month of costs

Nova's family, one month. Write fixed or variable, then add.

Expense	Cost	Type
New clothes	$88	
Gas for the car	$82	
Groceries	$355	
Car payment	$187	

Fixed, in all? ________

Variable, in all? ________

The whole month? ________

The bake sale

Orion's supplies cost $50. Profit = income − costs.

Item	Price	Sold	Income
Brownies	$6	5	
Muffins	$1	13	
Cookies	$6	15	

Total income? ________

Profit? ________

Profit or loss?

Write profit or loss, and how much.

Business	Income	Costs	Result	Amount
Zed's lemonade stand	$143.39	$127.24		
Nova's lemonade stand	$145.03	$133.66		
Luna's bake sale	$232.20	$247.33		

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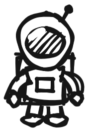
ANSWER KEY



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Fixed or variable?

Fixed costs the same every month. Variable changes.

Movie tickets — Fixed — Variable

Snacks — Fixed — Variable

Streaming service — Fixed — Variable

Gym membership — Fixed — Variable

A month of costs

Nova's family, one month. Write fixed or variable, then add.

Expense	Cost	Type
New clothes	$88	Variable
Gas for the car	$82	Variable
Groceries	$355	Variable
Car payment	$187	Fixed

Fixed, in all? $187

Variable, in all? $525

The whole month? $712

The bake sale

Orion's supplies cost $50. Profit = income − costs.

Item	Price	Sold	Income
Brownies	$6	5	$30
Muffins	$1	13	$13
Cookies	$6	15	$90

Total income? $133

Profit? $83

Profit or loss?

Write profit or loss, and how much.

Business	Income	Costs	Result	Amount
Zed's lemonade stand	$143.39	$127.24	profit	$16.15
Nova's lemonade stand	$145.03	$133.66	profit	$11.37
Luna's bake sale	$232.20	$247.33	loss	$15.13

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GUIDE

1 What this sheet practises

The money side of a small business: fixed and variable costs, income from sales, and profit as income minus costs.

2 A problem from the sheet, worked out

The bake sale

Orion's supplies cost $50. Profit = income − costs.

Item	Price	Sold	Income
Brownies	$6	5	$30
Muffins	$1	13	$13
Cookies	$6	15	$90

Total income? $133

Profit? $83

How: Income is the price × the number sold, added up for every item. Profit is income minus costs. If the costs are bigger than the income, the difference is a loss.

3 Words to know

income money that comes in from selling

expense money spent to run things

profit income minus costs, when income is bigger

loss how much the costs are more than income

fixed cost costs the same every month

4 Watch for

- Taking the costs from one item's price instead of from total income.
- Calling a result a profit when the costs are bigger than the income.
- Lining up dollars and cents wrongly, as in $51.00 − $36.33.

5 Where it fits

THIS SHEET

4.10B

Work out profit in a simple situation.

6 Helping at home

Plan a pretend lemonade stand: list what the supplies would cost, pick a price, and work out how many cups must sell to cover the costs.