LESSON MAKER PRO

Profit Check

Use revenue and costs to find business results.

HIGH SCHOOL · MA.912.FL.2.2

MA.912.FL.2.2 "Solve real-world problems involving profits, costs and revenues using spreadsheets and other technology."

NAME _____ DATE _____

FIND THE DIFFERENCE

Profit = revenue - total costs. In a spreadsheet, make a Profit column and subtract the Costs column from the Revenue column in each row. A positive result is a profit, and a negative result means a loss.

WORKED EXAMPLE

A snack stand has revenue of $468 and total costs of $295. Find the profit.

1. Profit = revenue - total costs.
2. Profit = $468 - $295.
3. Profit = $173.

Answer: $173 profit

PRACTICE 6 problems

1 A spreadsheet shows revenue of $240 and total costs of $175. What is the profit?

ANSWER _____

2 A business earns $410 in revenue and has $330 in costs. What is the profit?

ANSWER _____

3 A seller has revenue of $315 and costs of $390. What is the result?

ANSWER _____

4 A game club sells 18 tickets for $12 each and has costs of $98. What is the profit?

ANSWER _____

5 A spreadsheet shows revenue of $540 and profit of $125. What are the total costs?

ANSWER _____

6 A business has total costs of $285 and a profit of $75. What is its revenue?

ANSWER _____

APPLY IT Show your work

1 Use a spreadsheet for a hoodie sale. In row 1 label columns A:G as Quantity, Price, Variable cost/item, Fixed cost, Revenue, Total cost, Profit. In row 2 enter 35,14,8,30 in A:D. Write formulas in E:G and record their outputs. Change quantity to 40; record the new profit and explain why it changed. Attach a printout or show the formula bar to your teacher.

2 A student-run esports tournament sells 48 entries for $15 each. Equipment rental costs $120, and supplies cost $6 for each entrant. Use a spreadsheet or calculations to find the revenue, total costs, and profit.

CHALLENGE One step up

A school dance charges $9 per ticket. Its fixed costs are $126, and it costs $2 per ticket for supplies. How many tickets must the dance sell to earn a profit of $84? Show an equation or clear reasoning.

ANSWER KEY

Profit Check

HIGH SCHOOL · MA.912.FL.2.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A spreadsheet shows revenue of $240 and total costs of $175. What is the profit?	**$65 profit**
2	A business earns $410 in revenue and has $330 in costs. What is the profit?	**$80 profit**
3	A seller has revenue of $315 and costs of $390. What is the result?	**$75 loss**
4	A game club sells 18 tickets for $12 each and has costs of $98. What is the profit?	**$118 profit**
5	A spreadsheet shows revenue of $540 and profit of $125. What are the total costs?	**$415**
6	A business has total costs of $285 and a profit of $75. What is its revenue?	**$360**

PART 2 · APPLY IT

1. **$490 revenue; $310 total cost; $180 profit. At quantity 40: revenue $560, cost $350, profit $210, a $30 increase.** E2=A2*B2; F2=A2*C2+D2; G2=E2-F2. Five extra units each contribute $6. Require working cell references and a recalculation, not just typed answers.
2. **Revenue: $720; total costs: $408; profit: $312.** Revenue48×15=720; costs120+48×6=408; profit720−408=312.

CHALLENGE

30 tickets

Accept equivalent expressions such as revenue minus costs. For the loss item, accept either a $75 loss or a profit of -$75. For the challenge, a correct equation is 9x - (126 + 2x) = 84. Classroom model only: all units sell, prices and per-item cost stay fixed, and no other costs apply. Teacher checks saved spreadsheet formulas and both scenarios.