

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** A student club sells 35 hoodies for \$14 each. The club pays \$8 per hoodie and a \$30 design fee. Use a spreadsheet or calculations to find the revenue, total costs, and profit.

WORK SPACE

ANSWER _____

- 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.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

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.

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

- Revenue: \$490; total costs: \$310; profit: \$180** Revenue is $35 \times \$14 = \490 . Total costs are $35 \times \$8 + \$30 = \$310$, so profit is $\$490 - \$310 = \$180$.
- Revenue: \$720; total costs: \$408; profit: \$312** Revenue is $48 \times \$15 = \720 . Total costs are $\$120 + 48 \times \$6 = \$408$, so profit is $\$720 - \$408 = \$312$.

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 $9x - (126 + 2x) = 84$.