Name _____

AI Budget Builder Sample Answer Key

Step 1: Event Budget Example - Total budget: $200

Items & Quantities Planned: Pizza: 5 boxes × $12 = **$60,** Drinks: 20 bottles × $1.50 = **$30,** Decorations: **$25,** DJ: **$80,** Other snacks: 3 bags × $10 = **$30**

Total Cost: $60 + $30 + $25 + $80 + $30 = **$225**

Oops! That's $25 over budget - time to adjust.

Adjusted Plan: Cut snacks from 3 bags to 1 bag → $10
New total = $60 + $30 + $25 + $80 + $10 = **$205**
Still slightly over budget, but manageable if ticket sales cover the difference.

Step 2: Copilot Check - Prompt Used: "I'm planning a school dance with this list: 5 pizzas at $12, 20 drinks at $1.50, decorations $25, DJ $80, and 1 bag of snacks $10. Can you calculate the total and show your work?"

Copilot's Response: "5 × 12 = 60, 20 × 1.5 = 30, add 25, 80, and 10. Total = **$205.00.**"

Copilot matched my calculation exactly.

Percentage of budget used:

"If my total cost is $205 out of a $200 budget, what percentage have I spent?"

Copilot says: 205 ÷ 200 × 100 = **102.5%**
I spent **2.5% over budget.**

To fix that, I decided to buy only **4 pizzas instead of 5** (saving $12).
New total: $193 → **Under budget by $7.**

Step 3: Average & Profit Check

Break-even point: "If my total cost is $193 and each ticket is $5, how many tickets do I need to sell to break even?"

Copilot's answer: 193 ÷ 5 = **38.6 → about 39 tickets.**

So I need to sell at least 39 tickets to break even.

If I sell 49 tickets (10 more),   Profit = (49 × $5) − $193 = $245 − $193 = **$52 profit!**

Step 4: Reflection

Copilot's accuracy: It calculated totals and percentages correctly. It even explained each step clearly.

Lesson learned: I realized small price changes (like one less pizza) make a big difference.

Real-world connection: Budgeting means balancing fun and limits - Copilot made it easier to see options quickly. **:** I'd use Copilot for planning club events or figuring out fundraising goals since it double-checks my math and saves time.