

Class Party Budget

Teacher Guide & Answer Keys

Grade 5 · All levels

Overview

Students plan an end-of-year class party. They add the costs of decorations and food, multiply decimal prices by quantities, divide to find the cost per student and the better buy, and subtract to stay within the budget.

Time: 2 class periods · **Product:** Party Shopping List · **Standards:** 5.NBT.B.7

Suggested pacing

- Day 1: Introduce the challenge, read the scenario together, and work Parts 1–2 in pairs.
- Day 2: Finish the remaining parts and create the final product.
- Wrap-up: Share products and reflect on strategies.

Levels

- **Remedial:** smaller numbers, fewer steps, more structure.
- **Standard:** grade-level numbers and the full set of tasks.
- **Advanced:** harder numbers, extra reasoning and multi-step questions.

All three levels practice the same learning goals, so the class can share and compare work.

Rubric

Category	4 Excellent	3 Good	2 Developing	1 Beginning
Math accuracy	All answers correct	Most answers correct	Some answers correct	Few answers correct
Shows work	Clear work for every step	Work for most steps	Some work shown	Little work shown
Explains thinking	Clear, complete explanations	Mostly clear explanations	Some explanation	Little explanation
Final product	Complete, neat and creative	Complete and neat	Partly complete	Not complete



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Answer key · Remedial KEY

Part 1: Shopping List

1. Cost of 2 × Balloons at $4.50 each
$9.00

2. Cost of 3 × Juice box pack at $6.25 each
$18.75

3. Cost of 1 × Paper plates at $3.89 each
$3.89

4. Cost of 2 × Snack mix at $7.99 each
$15.98

5. Total cost
$47.62

Part 2: Stay on Budget

6. How much money is left (or how much over budget)?
$2.38 left

Part 3: Cost per Student

7. What is the cost per student? Round to the nearest cent.
$2.38

Part 4: Better Buy

8. Find the price of one cookie in each pack.
A: $0.75; B: $0.69

9. Which pack is the better buy?
Pack B

Extension

Answers vary; check the new total is at most the budget.



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Answer key · Standard KEY

Part 1: Shopping List

1. Cost of 3 × Balloons at $4.75 each
$14.25

2. Cost of 4 × Juice box pack at $6.49 each
$25.96

3. Cost of 2 × Paper plates at $3.89 each
$7.78

4. Cost of 3 × Pizza at $11.50 each
$34.50

5. Total cost
$82.49

Part 2: Stay on Budget

6. How much money is left (or how much over budget)?
$7.49 over

Part 3: Cost per Student

7. What is the cost per student? Round to the nearest cent.
$3.30

Part 4: Better Buy

8. Find the price of one cookie in each pack.
A: $0.75; B: $0.69

9. Which pack is the better buy?
Pack B

Extension

Answers vary; check the new total is at most the budget.



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Answer key · Advanced KEY

Part 1: Shopping List

1. Cost of 4 × Balloons at $4.75 each
$19.00

2. Cost of 5 × Juice box pack at $6.49 each
$32.45

3. Cost of 3 × Paper plates at $3.89 each
$11.67

4. Cost of 5 × Pizza at $12.75 each
$63.75

5. Total cost
$126.87

Part 2: Stay on Budget

6. How much money is left (or how much over budget)?
$6.87 over

Part 3: Cost per Student

7. What is the cost per student? Round to the nearest cent.
$4.53

Part 4: Better Buy

8. Find the price of one cookie in each pack.
A: $0.72; B: $0.69

9. Which pack is the better buy?
Pack B

Extension

Answers vary; check the new total is at most the budget.



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Worked teacher example (Standard, Part 1)

Cost of 3 × Balloons at $4.75 each
$14.25

Cost of 4 × Juice box pack at $6.49 each
$25.96

Cost of 2 × Paper plates at $3.89 each
$7.78

Cost of 3 × Pizza at $11.50 each
$34.50

Total cost
$82.49

Model the first part aloud: read the situation, name the operation, estimate, solve, and check. Then let partners try Part 2.

Look for

- Students use correct notation and units in every answer.
- Students explain why an answer is reasonable (estimates, benchmarks, pictures).
- Final products show the math clearly, not just the answers.