Plan the Christmas Party

Grades 6-8



Name _____ Date _____



Your class of **24 students** has a budget of **$150.00** for the holiday party. Shop smart, scale the recipe, use the sales, then check the budget. Show your work.

Part A – Best buy (unit rates)

1 The class needs **40 hot cocoa packets**. Which deal costs less per item, and what will enough packs cost?



Deal A: 12 for $6.00

Deal B: 20 for $9.00

Unit price A _____ Unit price B _____ Better deal _____ Cost _____

2 The class needs **72 candy canes**. Which deal costs less per item, and what will enough packs cost?



Deal A: 36 for $5.40

Deal B: 50 for $8.00

Unit price A _____ Unit price B _____ Better deal _____ Cost _____

3 The class needs **60 cookies**. Which deal costs less per item, and what will enough packs cost?



Deal A: 24 for $7.20

Deal B: 30 for $8.40

Unit price A _____ Unit price B _____ Better deal _____ Cost _____

Part B – Punch for everyone (ratios)

4 The punch recipe uses **3 cups juice : 2 cups sparkling water : 1 cup cranberry** and serves 8. Scale it for all 24 students. How many cups of each, and how many cups in total?



5 What percent of the punch is juice? Round to the nearest whole percent.



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Part B continued

6 Juice comes in cartons of 8 cups for $3.50. How many cartons do you need, and what do they cost?



Part C – Holiday sales (percents)

7 A box of decorations costs $40.00. It is **25% off**. What is the sale price?



8 Prizes for the games cost $12.00 each, with **15% off**. The class needs 3. What do they cost altogether?



9 A craft kit was $32.00 and is now $24.00. By what percent did the price drop?



Part D – Check the budget

10 The class budget is **$150.00**. Fill in the table. Is the party under budget? How much money is left over?



Item (use your answers from questions 1–9)	Cost
Hot cocoa	_____
Candy canes	_____
Cookies	_____
Punch juice	_____
Decorations	_____
Prizes	_____
Craft kit	_____
Subtotal	_____
Sales tax (8%), rounded to the nearest cent	_____
Total	_____

11 What percent of the budget is spent? What is the cost per student for 24 students? Round to the nearest cent.



Answer Key

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1. hot cocoa packets: A = $0.50 each, B = $0.45 each → **Deal B**. 40 ÷ 20 → 2 pack(s) = **$18.00**
2. candy canes: A = $0.15 each, B = $0.16 each → **Deal A**. 72 ÷ 36 → 2 pack(s) = **$10.80**
3. cookies: A = $0.30 each, B = $0.28 each → **Deal B**. 60 ÷ 30 → 2 pack(s) = **$16.80**
4. Multiply by 3: **9 cups juice, 6 cups sparkling water, 3 cups cranberry, 18 cups total**
5. 3 ÷ 6 = 1/2 → **50%**
6. 9 cups ÷ 8 = 1.125 → round up to **2 cartons**, 2 × $3.50 = **$7.00**
7. $40.00 × 0.75 = **$30.00**
8. $12.00 × 0.85 = $10.20; × 3 = **$30.60**
9. ($32.00 − $24.00) ÷ $32.00 = **25%**
10.

Hot cocoa	$18.00
Candy canes	$10.80
Cookies	$16.80
Punch juice	$7.00
Decorations	$30.00
Prizes	$30.60
Craft kit	$24.00
Subtotal	**$137.20**
Tax 8%	$10.98
Total	**$148.18**

Yes, it is under budget. $150.00 − $148.18 = **$1.82 left over**.
11. $148.18 ÷ $150.00 = **98.79%** of the budget; $148.18 ÷ 24 = **$6.17 per student** ($6.1742 rounded)