



Smart Shopper Quest

Name: _____

Grade: 4

Date: _____

Compare deals, calculate unit prices, spot savings, and explain choices. Show work for multi-step problems.

Part 1 · Quick Unit Prices BASICS

1. 8 juice boxes for \$12. Cost per box? _____

2. 5 granola bars for \$10. Cost per bar? _____

3. 4 notebooks for \$6. Cost per notebook? _____

4. 12 apples for \$9. Cost per apple? _____

5. 3 bottles for \$4.50. Cost per bottle? _____

6. 10 markers for \$7.50. Cost per marker? _____

Unit Price = Total Cost ÷ Number of Items

Part 2 · Which Deal Wins? COMPARE

7. Pack A: 6 muffins \$9. Pack B: 8 muffins \$12. Cheaper per muffin? (A/B) _____

8. Cereal: 14 oz \$4.20 OR 20 oz \$6. Choose cheaper per oz. _____

9. Pencil bundle: 24 for \$6 OR 10 for \$2.80. Which is better? _____

10. Erasers: 5 for \$3 or 9 for \$5.40. Which lower each? _____

11. Soap bars: 3 for \$5.25 or 6 for \$10.50. Same unit price? (Yes/No)

12. Trail mix: 400 g \$4.80; 250 g \$3.25. Pick cheaper per gram.

Part 3 · Multi-Pack & Savings

CALCULATE

13. Single pen \$0.90. Pack of 10 costs \$8. How much saved vs buying singles? _____

14. Buying 4 stickers \$0.75 each OR a sheet of 10 for \$6. Which is cheaper for 10? _____

15. Water: single bottle \$1.20. Case of 12 = \$12. Savings per bottle? _____

16. Two deals: 2 shirts for \$18 OR 3 shirts for \$24. Cost per shirt each deal? _____ & _____

17. A bundle advertises "Save \$2" on \$14 price. Original price? _____

18. A pack "Buy 3 get 1 free." If one costs \$2.40, total paid for 4? _____

Part 4 · Discounts & Change

ADJUST

19. \$25 shirt with \$5 off coupon. New price? _____

20. \$40 shoes at 50% off. Sale price? _____

21. You pay \$20 for items costing \$14.65. Change back? _____

22. Two toys \$18 and \$23. You have \$40. Need more? (Yes/No)

23. Basket total \$32. You use \$10 gift card + \$25 cash. Change due? _____

24. A \$60 backpack is reduced by \$15 then you add \$4 tax. Final total? _____

Part 5 · Reasoning & Estimation

THINK

25. Estimate: $\$4.90 + \$8.10 + \$6.05$
 $\approx$ _____ (Round to nearest dollar first)

26. TRUE/FALSE: Lower unit price always means lowest total paid.

27. If 5 bags cost \$11, predict cost of 10 (same rate). _____

28. A box is \$7.99. Rounding to nearest dollar gives _____ for estimating.

29. Explain in 5 words or fewer why we compare per item cost.

30. BEST BUY? Large jar: 900 g for \$9 or small: 400 g for \$4.40 (show reasoning). _____

Bonus · Reflection

REFLECT

31. Reflection: One shopping strategy you will use next time (circle: compare / estimate / plan / save): _____

Open responses (#29, #30 explanation, #31) may vary—focus on logic.

Answer Key

1. \$1.50
2. \$2.00
3. \$1.50
4. \$0.75
5. \$1.50
6. \$0.75
7. A (\$1.50 vs B \$1.50? both \$1.50 → either; accept A/B)
8. Same (\$0.30 both)
9. 24 for \$6 → \$0.25 vs \$0.28 → 24 pack
10. $5/\$3=\0.60 ; $9/\$5.40=\0.60 → same
11. Yes (\$1.75 both)
12. $400\text{g}:4.80\rightarrow0.012$; $250\text{g}:3.25\rightarrow0.013$ → 400g pack
13. Singles $\$9.00 - \$8.00 = \$1.00$
14. Sheet (10 singles \$7.50 vs \$6)
15. Case $\$12/12=\1.00 ; save \$0.20 each
16. $2/\$18=\9 ; $3/\$24=\8 → \$9 & \$8
17. \$16
18. 3 pay = $3\times2.40=\$7.20$
19. \$20
20. \$20
21. \$5.35
22. Yes (41 needed)
23. \$3 change
24. \$49 ($60-15=45$; $+4=49$)
25. $\approx \$19$ ($5+8+6$)
26. False (buying extra units raises total)
27. \$22
28. \$8
29. "Find best value"
30. Large ($900/9=\$0.01/\text{g}$ vs $400/4.40\approx\$0.011$)
31. Reflection varies

If student chose both in #7 clarify both \$1.50 each; award credit. Reasoning accepted for #29-#31 with sensible logic.