Decimal Operations in Financial Contexts

Decimal Operations in Financial Contexts: Apply, Compare, and Design

Name _____ **Date** _____ **Score** _____ / 8

QUICK REVIEW

Keep money in dollars and align cents. Three items at 2.40 dollars cost $3 \times 2.40 = 7.20$ dollars; change from 10 dollars is $10.00 - 7.20 = 2.80$ dollars. A shared bill uses division; compare packs by cost per item, not total price alone.

Worked example

Three pens cost 1.80 dollars each. Find change from 10 dollars.

1. Pens cost $3 \times 1.80 = 5.40$ dollars.
2. Change: $10.00 - 5.40 = 4.60$ dollars.
3. $5.40 + 4.60 = 10.00$ checks the bill.
Answer: 4.60 dollars.

Practice Problems

Show your thinking.

1. A child earns 8.50 dollars per hour for 6 hours and spends 12.75 dollars. Find money left.

2. Design a purchase of 4 equal-price gifts and a 3.40-dollar card using exactly 25 dollars. Find the gift price.

3. Compare 4 pencils for 3.20 dollars with 6 for 4.50 dollars. Find each unit price and the cheaper pack per pencil.

4. Correct: Four tickets at 3.75 dollars plus one 2.50-dollar fee cost $4 \times (3.75 + 2.50)$. Find the correct bill.

5. You have 18.50 dollars and want to keep 5 dollars. Can you buy 3 items at 4.60 dollars each?

6. A club has 42 dollars. It buys 3 kits at 8.25 dollars each and saves the rest. Find the savings.

7. Compare buying 5 items at 2.40 dollars each with buying 4 at 2.75 dollars each and paying a 0.50-dollar fee. Which costs less and by how much?

8. A 30-dollar budget must cover a 7.80-dollar fee and 5 equal-priced snacks. Find the greatest price per snack that uses the budget exactly.

Answer Key

1. 38.25 dollars.
2. 5.40 dollars each.
3. 0.80 and 0.75 dollars; the six-pack is cheaper by 0.05 per pencil.
4. 17.50 dollars.
5. No; the plan leaves 4.70 dollars, 0.30 short of saving 5.
6. 17.25 dollars.
7. The second plan; 0.50 dollar less.
8. 4.44 dollars.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. Income: $8.50 \times 6 = 51$ dollars.
2. Money left: $51 - 12.75 = 38.25$ dollars.
3. Income is counted before subtracting the spending.

Problem 2

1. Gift budget: $25.00 - 3.40 = 21.60$ dollars.
2. $21.60 \div 4 = 5.40$ dollars each.
3. $4 \times 5.40 + 3.40 = 25.00$ dollars.

Problem 3

1. $3.20 \div 4 = 0.80$ dollar per pencil.
2. $4.50 \div 6 = 0.75$ dollar per pencil.
3. $0.80 - 0.75 = 0.05$ dollar less per pencil.

Problem 4

1. Tickets cost $4 \times 3.75 = 15.00$ dollars.
2. Add the fee once: $15.00 + 2.50 = 17.50$ dollars.
3. The incorrect expression charges the fee 4 times.

Problem 5

1. Items cost $3 \times 4.60 = 13.80$ dollars.
2. $18.50 - 13.80 = 4.70$ dollars remain.
3. $5.00 - 4.70 = 0.30$ dollar short.

Problem 6

1. Kits cost $3 \times 8.25 = 24.75$ dollars.
2. Savings: $42.00 - 24.75 = 17.25$ dollars.
3. $24.75 + 17.25 = 42.00$ balances the plan.

Problem 7

1. First cost: $5 \times 2.40 = 12.00$ dollars.
2. Second cost: $4 \times 2.75 + 0.50 = 11.50$ dollars.
3. $12.00 - 11.50 = 0.50$ dollar.

Problem 8

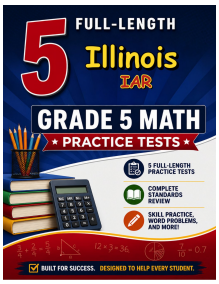
1. After the fee: $30.00 - 7.80 = 22.20$ dollars.
2. $22.20 \div 5 = 4.44$ dollars per snack.
3. $7.80 + 5 \times 4.44 = 30.00$ verifies the budget.

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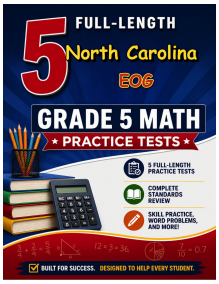
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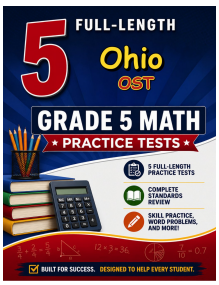
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