Decimal Operations in Financial Contexts

Decimal Operations in Financial Contexts: Find, Fix, and Work Backward

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 5 hours and spends 12.75 dollars. Find money left.

2. A receipt totals 19.80 dollars for 3 equal items and a 2.40-dollar fee. Find one item's 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. The cost of 5 equal items is 18.75 dollars. A student subtracts 5 to find one item price. Solve correctly and check the receipt.

5. An account had 35.60 dollars before a purchase and 18.85 afterward. Find the purchase cost.

6. A child says $15.00 - 3 \times 2.65 = 32.05$ dollars of change. Correct the operations.

7. A 24.60-dollar bill is shared equally by 4 friends. Find one share and verify the total.

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. 29.75 dollars.
2. 5.80 dollars.
3. 0.80 and 0.75 dollars; the six-pack is cheaper by 0.05 per pencil.
4. 3.75 dollars each.
5. 16.75 dollars.
6. 7.05 dollars change.
7. 6.15 dollars.
8. 4.44 dollars.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. Income: $8.50 \times 5 = 42.5$ dollars.
2. Money left: $42.5 - 12.75 = 29.75$ dollars.
3. Income is counted before subtracting the spending.

Problem 2

1. Item total: $19.80 - 2.40 = 17.40$ dollars.
2. $17.40 \div 3 = 5.80$ dollars per item.
3. $3 \times 5.80 + 2.40 = 19.80$ checks the receipt.

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. Equal item prices require $18.75 \div 5 = 3.75$ dollars.
2. $5 \times 3.75 = 18.75$ dollars checks the total.

Problem 5

1. Cost is the drop in balance: $35.60 - 18.85 = 16.75$ dollars.
2. Check: $18.85 + 16.75 = 35.60$ dollars.

Problem 6

1. Purchase total: $3 \times 2.65 = 7.95$ dollars.
2. Change: $15.00 - 7.95 = 7.05$ dollars.
3. $7.95 + 7.05 = 15.00$ checks the bill.

Problem 7

1. $24.60 \div 4 = 6.15$ dollars per friend.
2. $4 \times 6.15 = 24.60$ dollars verifies the split.

Problem 8

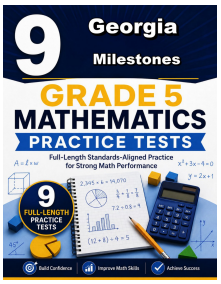
1. After the fee: $30.00 - 7.80 = 22.20$ dollars.
2. $22.20 \div 5 = 4.44$ dollars per snack.
3. $7.80 + 5 \times 4.44 = 30.00$ verifies the budget.

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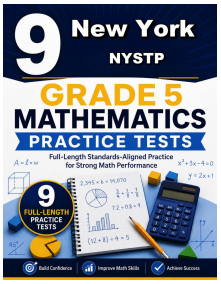
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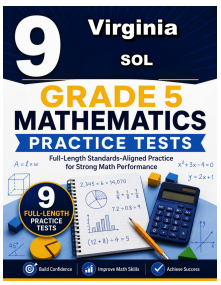
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