Decimal Operations in Financial Contexts

Decimal Operations in Financial Contexts: Models and Computation

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 4 hours and spends 12.75 dollars. Find money left.

2. A notebook costs 2.35 dollars. Find the change from 20 dollars after buying 6 notebooks.

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

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

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. 21.25 dollars.
2. 5.90 dollars.
3. 0.80 and 0.75 dollars; the six-pack is cheaper by 0.05 per pencil.
4. 17.50 dollars.
5. 16.75 dollars.
6. 17.25 dollars.
7. 6.15 dollars.
8. 4.44 dollars.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. Income: $8.50 \times 4 = 34$ dollars.
2. Money left: $34 - 12.75 = 21.25$ dollars.
3. Income is counted before subtracting the spending.

Problem 2

1. Cost: $6 \times 2.35 = 14.10$ dollars.
2. Change: $20.00 - 14.10 = 5.90$ dollars.
3. $14.10 + 5.90 = 20.00$ checks the change.

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

Problem 8

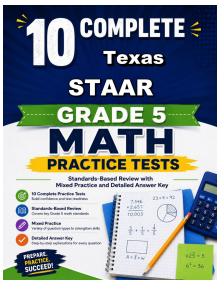
1. After the fee: $30.00 - 7.80 = 22.20$ dollars.
2. $22.20 \div 5 = 4.44$ dollars per snack.
3. $7.80 + 5 \times 4.44 = 30.00$ verifies the budget.

TESTINAR

Keep Building Grade 5 Math Skills

Choose the practice book matched to your state assessment and turn worksheet practice into a complete test-prep plan.

All Grade 5 books



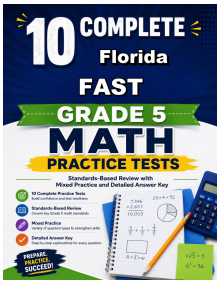
TEXAS STAAR

10 Full-Length Math Practice Tests

Build Grade 5 accuracy, confidence, and test stamina with 10 printable practice tests.

Printable eBook • Instant PDF access

View eBook



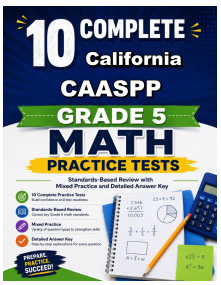
FLORIDA FAST

10 Full-Length Math Practice Tests

Build Grade 5 accuracy, confidence, and test stamina with 10 printable practice tests.

Printable eBook • Instant PDF access

View eBook



CALIFORNIA CAASPP

10 Full-Length Math Practice Tests

Build Grade 5 accuracy, confidence, and test stamina with 10 printable practice tests.

Printable eBook • Instant PDF access

View eBook

Need a different state?
Testinar has Grade 5 math practice books for state assessments across the country.

TESTINAR.COM/GRADES/5