Measurement Word Problems

Spot mistakes, reason, and work backward

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

QUICK REVIEW

Change to one unit before combining measurements.
2 L 350 mL plus 450 mL is $2{,}350 + 450 = 2{,}800$ mL.
For time, from $2{:}45$ to $3{:}20$ is $15 + 20 = 35$ minutes.
For money, 1 dollar $= 100$ cents.

Worked example

A 3-m rope loses 85 cm. Find the length left in centimeters.

1. 3 m $= 300$ cm.
2. $300 - 85 = 215$ cm remain.
3. $215 + 85 = 300$ cm checks the cut.
Answer: 215 cm.

Practice Problems

Show your thinking.

1. A cord has 145 cm left after 85 cm is removed. Find its original length in centimeters.

2. After four 300-mL cups are filled, a jug holds 800 mL. Find the starting volume in milliliters.

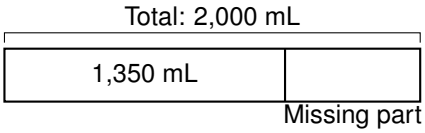
3. A parcel and 750 g of packing together weigh 3 kg. Find the parcel mass in grams.

4. An item and 275 cents of shipping cost 9 dollars. Find the item price in cents.

5. A movie ends at $4{:}10$ p.m. after 45 minutes. Find its start time.

6. A planner says a 3-kg box can lose 900 g and weigh $2{,}100$ kg. Repair the unit and check.

7. Use the bar to find how much more liquid fills the 2 L target. Write the missing amount in milliliters.



8. A 1-kg parcel and a 950-g parcel are compared. Is the first heavier? Give the difference.

Answer Key

1. 230 cm.
2. 2000 mL.
3. 2250 g.
4. 625 cents.
5. $3{:}25$ p.m.
6. $2{,}100$ g, or 2 kg 100 g.
7. 650 mL.
8. Yes; 50 g heavier.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. Put the removed length back.
2. $145 + 85 = 230$ cm.
3. $230 - 85 = 145$ cm verifies the start.

Problem 2

1. The filled cups use $4 \times 300 = 1{,}200$ mL.
2. $1{,}200 + 800 = 2{,}000$ mL initially.
3. $2{,}000 - 1{,}200 = 800$ mL checks it.

Problem 3

1. 3 kg $= 3{,}000$ g.
2. $3{,}000 - 750 = 2{,}250$ g for the parcel.
3. $2{,}250 + 750 = 3{,}000$ g checks the total.

Problem 4

1. 9 dollars $= 900$ cents.
2. $900 - 275 = 625$ cents.
3. $625 + 275 = 900$ cents checks the price.

Problem 5

1. Go back 10 minutes to $4{:}00$.
2. There are $45 - 10 = 35$ more minutes to subtract.
3. 35 minutes before $4{:}00$ is $3{:}25$ p.m.

Problem 6

1. 3 kg $= 3{,}000$ g.
2. $3{,}000 - 900 = 2{,}100$ g.
3. $2{,}100 + 900 = 3{,}000$ g; $2{,}100$ kg would be far too heavy.

Problem 7

1. The target is 2 L, or $2{,}000$ mL. The known part is $1{,}350$ mL.
2. $2{,}000 - 1{,}350 = 650$ mL. Write 650 mL in the right part.
3. $1{,}350 + 650 = 2{,}000$ mL checks the fill.

Problem 8

1. 1 kg $= 1{,}000$ g.
2. $1{,}000 > 950$.
3. $1{,}000 - 950 = 50$ g.

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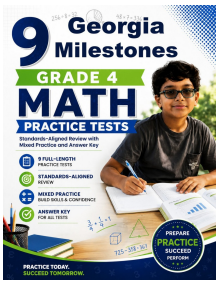

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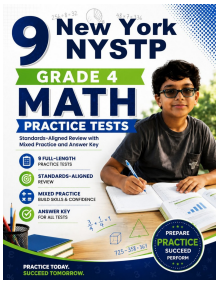

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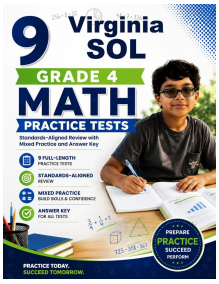

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