Measurement Units and Conversions

Spot mistakes, reason, and work backward

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

QUICK REVIEW

The same measurement needs more small units and fewer large units. Multiply to count smaller units; group or divide to count larger units. Useful facts: 1 m $= 100$ cm, 1 kg $= 1{,}000$ g, 1 hour $= 60$ minutes, and 1 foot $= 12$ inches.

Worked example

Convert 3 yards to feet.

1. Use 1 yard $= 3$ feet.
2. $3 \times 3 = 9$.
3. Check: $9 \div 3 = 3$ yards.
Answer: 9 feet.

Practice Problems

Show your thinking.

1. How many meters equal 900 cm?

2. Find the number of liters in $4{,}000$ mL.

3. Write 180 minutes as hours.

4. Find the number of feet equal to 72 inches.

5. A student divides by 100 to turn 6 kg into grams. Repair the conversion.

6. Write 275 minutes as whole hours and leftover minutes.

7. Fill the grams-to-kilograms table.

g	kg
2000	
7000	
10000	

8. Is 2 hours 15 minutes the same as 215 minutes? Convert and explain.

Answer Key

1. 9 m.
2. 4 L.
3. 3 hours.
4. 6 feet.
5. $6{,}000$ g.
6. 4 hours 35 minutes.
7. $2, 7, 10$ kg.
8. No; 135 minutes.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. Use 1 m $= 100$ cm.
2. $900 \div 100 = 9$.
3. Check: $9 \times 100 = 900$ cm.

Problem 2

1. Use 1 L $= 1000$ mL.
2. $4000 \div 1000 = 4$.
3. Check: $4 \times 1000 = 4000$ mL.

Problem 3

1. Use 1 hour $= 60$ minutes.
2. $180 \div 60 = 3$.
3. Check: $3 \times 60 = 180$ minutes.

Problem 4

1. Use 1 foot $= 12$ inches.
2. $72 \div 12 = 6$.
3. Check: $6 \times 12 = 72$ inches.

Problem 5

1. The correct fact is 1 kg $= 1{,}000$ g.
2. Grams are smaller, so multiply: $6 \times 1{,}000 = 6{,}000$ g.
3. $6{,}000 \div 1{,}000 = 6$ kg checks it.

Problem 6

1. $4 \times 60 = 240$ minutes make 4 hours.
2. $275 - 240 = 35$ minutes remain.
3. $240 + 35 = 275$ and $35 < 60$ check the regrouping.

Problem 7

1. $2{,}000 \div 1{,}000 = 2$ kg.
2. $7{,}000 \div 1{,}000 = 7$ kg.
3. $10{,}000 \div 1{,}000 = 10$ kg.

Problem 8

1. 2 hours $= 2 \times 60 = 120$ minutes.
2. $120 + 15 = 135$ minutes.
3. $215 - 135 = 80$ minutes; clock units are not base-ten place values.

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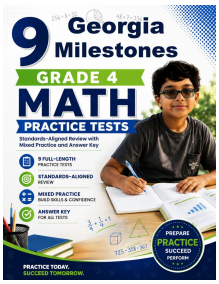

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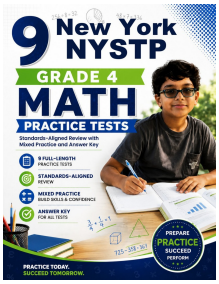

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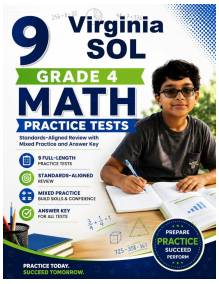

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