Solving Multi-Step Problems with Conversions

Solving Multi-Step Problems with Conversions: Models and Computation

Name _____ **Date** _____ **Score** _____ / 6

QUICK REVIEW

Convert to one unit before combining or sharing. A 2 m rope with 30 cm removed has $2 \times 100 - 30 = 170$ cm left. Dividing that among 5 gives $170 \div 5 = 34$ cm each. Keep the unit after every step.

Worked example

A jug starts with 2.5 L of water and fills 5 bottles of 400 mL each. Find the milliliters left. Use 1 L $= 1000$ mL.

1. Start: $2.5 \times 1000 = 2500$ mL.
2. Used: $5 \times 400 = 2000$ mL.
3. Left: $2500 - 2000 = 500$ mL.
Answer: 500 mL.

Practice Problems

Show your thinking.

1. A rope is 3.5 m long. Cut off 85 cm. Find the length left in centimeters. Use 1 m $= 100$ cm.

2. Four bags hold 750 g each. Find the total in kilograms. Use 1 kg $= 1000$ g.

3. A jug has 2 L. Fill 6 cups of 250 mL each. Find the remaining milliliters. Use 1 L $= 1000$ mL.

4. A student adds 2 m and 35 cm as 37 cm. Correct the total in centimeters. Use 1 m $= 100$ cm.

5. A walk lasts 1.5 h and a rest lasts 15 min. Find the total minutes. Use 1 h $= 60$ min.

6. A ribbon starts at an unknown length. After removing 45 cm, 1.8 m remains. Find the starting centimeters. Use 1 m $= 100$ cm.

Answer Key

1. 265 cm.
2. 3 kg.
3. 500 mL.
4. 235 cm.
5. 105 min.
6. 225 cm.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. Convert: $3.5 \times 100 = 350$ cm.
2. Subtract: $350 - 85 = 265$ cm.
3. $265 + 85 = 350$ cm checks the original.

Problem 2

1. $4 \times 750 = 3000$ g.
2. $3000 \div 1000 = 3$ kg.
3. $3 \times 1000 = 3000$ g checks the conversion.

Problem 3

1. Start: $2 \times 1000 = 2000$ mL.
2. Used: $6 \times 250 = 1500$ mL.
3. Left: $2000 - 1500 = 500$ mL.

Problem 4

1. $2 \times 100 = 200$ cm.
2. $200 + 35 = 235$ cm.
3. The incorrect sum combines different units.

Problem 5

1. $1.5 \times 60 = 90$ min walking.
2. $90 + 15 = 105$ min total.
3. $105 - 15 = 90$ min checks the walking time.

Problem 6

1. Remaining: $1.8 \times 100 = 180$ cm.
2. Add back: $180 + 45 = 225$ cm.
3. $225 - 45 = 180$ cm checks it.

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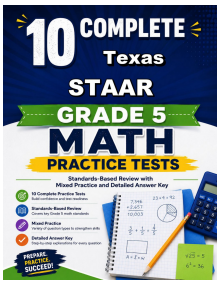

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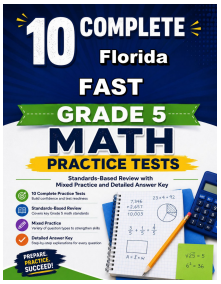

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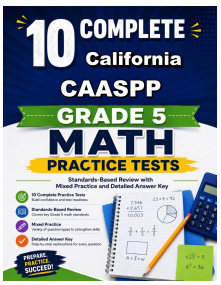

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