Measurement Word Problems

Apply the skill to decisions and designs

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 walk may be at most 2 km 400 m. Plan A joins 1 km 350 m and 900 m. Plan B joins 950 m and 1 km 550 m. Which fits, and by how much?

2. A 3 m 40 cm ribbon must keep a 40 cm spare piece. Split the rest into three equal lengths. Give one length in centimeters and in meters.

3. You have 6 dollars and must save 1 for the bus. Choose either a 270-cent book and a 190-cent pen, or two 260-cent notebooks. Which plan works, and how much remains after saving the bus fare?

4. Setup takes 15 minutes, practice 35 minutes, and cleanup 10 minutes, in that order. Everything must finish by $10{:}20$ a.m. Find the latest setup start.

5. A trip starts at $1{:}50$ p.m. and takes 35 minutes. Can it arrive by $2{:}30$ p.m.? Give spare time.

6. Two separate cords are 1 m 40 cm and 95 cm. Kai says there is enough to cut one 2-m cord without joining. Explain why the total does or does not settle the question.

7. Pack exactly 1 L 750 mL of water in full containers. There are six 250 mL bottles and four 125 mL jars. Use as few containers as possible. How many of each?

8. Use this serving table. Is 2 L of drink enough, and how much will remain if it is?

Size	Count	mL each
Small	4	200
Large	4	250

Answer Key

1. Plan A fits with 150 m to spare.
2. 100 cm, or 1 m.
3. Book and pen; 40 cents after saving the fare.
4. $9{:}20$ a.m.
5. Yes; arrival $2{:}25$ p.m., 5 minutes early.
6. No. The total is 235 cm, but neither cord is 200 cm long.
7. Six bottles and two jars, eight containers.
8. Yes; 200 mL remain.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. Use a $2{,}400$ m limit. Plan A totals $1{,}350 + 900 = 2{,}250$ m.
2. Plan B totals $950 + 1{,}550 = 2{,}500$ m, more than the limit.
3. Plan A leaves $2{,}400 - 2{,}250 = 150$ m to spare.

Problem 2

1. Convert the ribbon to $3 \times 100 + 40 = 340$ cm.
2. Reserve 40 cm; $340 - 40 = 300$ cm is available.
3. $300 \div 3 = 100$ cm per length. One hundred centimeters is 1 m.

Problem 3

1. Set aside 100 of 600 cents. The shopping limit is 500 cents.
2. Book and pen cost $270 + 190 = 460$ cents. The notebooks cost $2 \times 260 = 520$ cents, too much.
3. $500 - 460 = 40$ cents remain beyond the bus fare.

Problem 4

1. Work back: 10 minutes before $10{:}20$ is $10{:}10$ a.m., the start of cleanup.
2. Before practice, go back 10 minutes to $10{:}00$, then 25 more to $9{:}35$ a.m.
3. Go back 15 minutes for setup: $9{:}20$ a.m. The three parts total 60 minutes.

Problem 5

1. 10 minutes reaches $2{:}00$; $35 - 10 = 25$ minutes remain.
2. Arrival is $2{:}25$ p.m.
3. $2{:}30$ p.m. is 5 minutes after arrival.

Problem 6

1. The cords are 140 cm and 95 cm. Added together, they are $140 + 95 = 235$ cm.
2. A single piece needs $2 \times 100 = 200$ cm.
3. Neither 140 nor 95 reaches 200. The total alone cannot make one unjoined piece.

Problem 7

1. The target is $1{,}750$ mL. Six bottles give $6 \times 250 = 1{,}500$ mL.
2. $1{,}750 - 1{,}500 = 250$ mL remains; two jars hold $2 \times 125 = 250$ mL.
3. Even the seven largest available containers hold only $1{,}500 + 125 = 1{,}625$ mL. Eight are necessary.

Problem 8

1. Four small cups use $4 \times 200 = 800$ mL.
2. Four large cups use $4 \times 250 = 1{,}000$ mL. Together they use $1{,}800$ mL.
3. The supply is $2{,}000$ mL, so $2{,}000 - 1{,}800 = 200$ mL remain.

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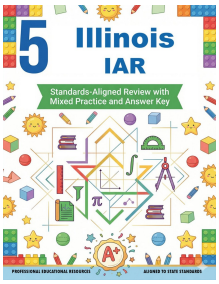

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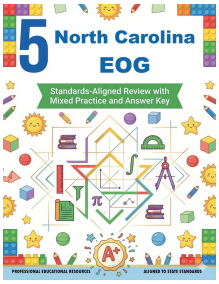

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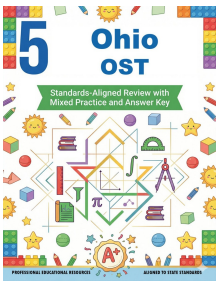

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