

Grade 4 - Measurement Units and Conversions - Test Answer Key

Common Core 4.MD.A.1, 4.MD.A.2 · maths-pdf.fr/en/

Use this answer key to score the test out of 20 points. Each solution shows the correct work, and the scoring note tells how many points to give for each part, including partial credit for correct steps.

Grade 4 · Common Core State Standards: **4.MD.A.1, 4.MD.A.2**

Question 1 - Long distances and masses [2 pts]

a. $6 \times 1,000 = 6,000$ m

b. $4 \times 1,000 = 4,000$ g

Scoring: 1 point for each correct conversion with its unit.

Question 2 - Short lengths and liquids [2 pts]

a. $9 \times 100 = 900$ cm

b. $3 \times 1,000 = 3,000$ mL

Scoring: 1 point for each correct conversion with its unit.

Question 3 - Weight and seconds [2 pts]

a. $5 \times 16 = 80$ oz

b. $8 \times 60 = 480$ sec

Scoring: 1 point for each correct conversion with its unit.

Question 4 - Mixed units [2 pts]

a. $5 \times 60 = 300$ min

b. $2 \times 100 + 8 = 208$ cm

Scoring: 1 point for each correct answer with its unit.

Question 5 - Compare measurements [3 pts]

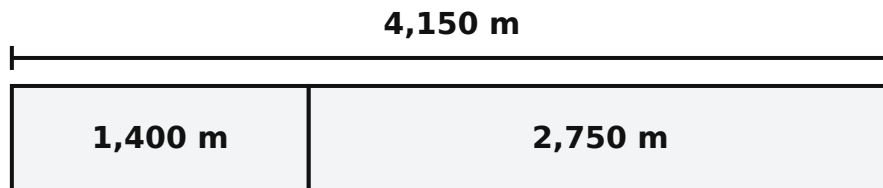
- a. $4 \text{ kg} = 4,000 \text{ g}$, and $4,000 < 4,050$. Answer: $<$
- b. $3 \text{ min} = 180 \text{ sec}$, and $180 > 170$. Answer: $>$
- c. $6 \text{ lb} = 96 \text{ oz}$, and $96 > 90$. Answer: $>$

Scoring: 1 point for each correct symbol. Award the point only if the measurements were compared in the same unit.

Question 6 - Walking route [3 pts]

- a. $1 \text{ km } 400 \text{ m} = 1,000 + 400 = 1,400 \text{ m}$. Total: $1,400 + 2,750 = 4,150 \text{ m}$.
- b. $4,150 = 4 \times 1,000 + 150$, so **4 km 150 m**.

Scoring: part a, 1 point for changing to meters and 1 point for the correct sum. Part b, 1 point.



$$1,400 + 2,750 = 4,150.$$

Question 7 - Juice cups [3 pts]

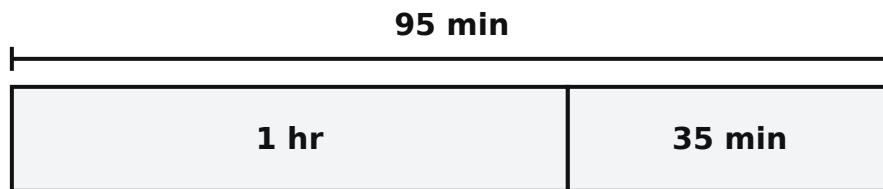
- a. $8 \times 250 = 2,000 \text{ mL}$
- b. $3 \text{ L} = 3,000 \text{ mL}$, and $3,000 - 2,000 = 1,000 \text{ mL}$, which is **1 L**.

Scoring: part a, 1 point. Part b, 1 point for changing 3 L to milliliters and 1 point for the correct answer.

Question 8 - Tutoring session [3 pts]

- a. $60 + 35 = 95 \text{ min}$
- b. $4:40 + 1 \text{ hr} = 5:40$. Then $5:40 + 20 \text{ min} = 6:00$, and 15 more minutes is 6:15. The session ends at **6:15 PM**.

Scoring: part a, 1 point. Part b, 1 point for adding the hour and 1 point for the correct end time.



4:40 PM then 5:40 PM then 6:15 PM

First 60 minutes, then 35 minutes.

Total
20 points