

Grade 4 · Measurement Conversions and Word Problems · Test Answer Key

Common Core 4.MD.A.1, 4.MD.A.2 · mathovore.fr

Use this answer key to score the measurement test out of 20 points. Each solution shows the conversion fact, the calculation, and the scoring guide, so a teacher or parent can award partial credit fairly.

Grade 4 Common Core: 4.MD.A.1 · 4.MD.A.2

Question 1: Convert units (2 points)

a) $6 \times 1,000 = 6,000$ meters.

b) $9 \times 16 = 144$ ounces.

6,000 m; 144 oz

Scoring: 1 point for each correct conversion with the right unit.

Question 2: Kilograms and grams table (2 points)

Multiply each number of kilograms by 1,000.

Kilograms (kg)	Grams (g)
3	3,000
7	7,000
12	12,000

Completed table.

3,000 g; 7,000 g; 12,000 g; the multiplier is 1,000.

Scoring: 1 point for all three grams values correct; 1 point for stating 1,000.

Question 3: Compare measurements (2 points)

a) $4 \text{ m} = 400 \text{ cm}$, and $400 > 380$. So $4 \text{ m} > 380 \text{ cm}$.

b) $3 \text{ hr} = 180 \text{ min}$, and 180 is less than 200. So $3 \text{ hr} < 200 \text{ min}$.

$>$; $<$

Scoring: 1 point for each correct symbol; the conversion shows why.

Question 4: Mixed units (2 points)

a) $5 \times 1,000 = 5,000$; $5,000 + 60 = 5,060 \text{ m}$.

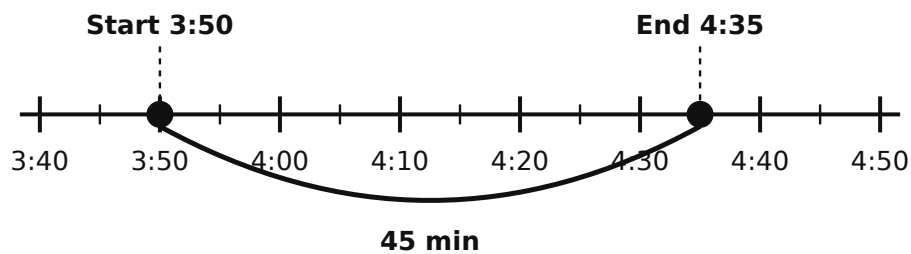
b) $3 \times 60 = 180$; $180 + 15 = 195 \text{ sec}$.

5,060 m; 195 sec

Scoring: 1 point each. Give no point if the extra part is left out (for example 5,000 m).

Question 5: Practice time (2 points)

a) From 3:50 to 4:00 is 10 minutes. From 4:00 to 4:35 is 35 minutes. $10 + 35 = 45$ minutes.



Jump of 45 minutes from 3:50 to 4:35.

b) $5:20 + 45 \text{ min}$: 5:20 to 6:00 is 40 minutes, and 5 more minutes make 6:05.

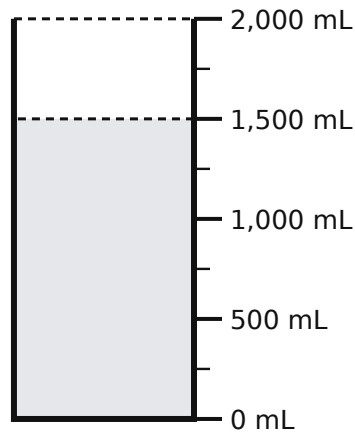
45 minutes; 6:05

Scoring: 1 point for 45 minutes; 1 point for 6:05.

Question 6: Water in a jug (3 points)

a) The level is at **1,500 mL**.

b) $2 \text{ L} = 2,000 \text{ mL}$. $2,000 - 1,500 = 500$.



The dashed part is 500 mL.

c) $1,500 \div 250 = 6$.

1,500 mL; 500 mL; 6 glasses

Scoring: 1 point for each part.

Question 7: Grapes and cheese (3 points)

a) $4 \times \$3 = \$12$.

b) Cheese: $2 \times \$5 = \$10$. Total: $\$12 + \$10 = \$22$.

c) $\$30 - \$22 = \$8$.

\$12; \$22; \$8

Scoring: 1 point for each part; follow-through credit if an earlier part is wrong but the later method is correct.

Question 8: Rope pieces (2 points)

a) $3 \times 100 = 300$ cm.

b) $300 \div 50 = 6$.

300 cm; 6 pieces

Scoring: 1 point for each part.

Question 9: Package masses (2 points)

a) $2,000 + 750 = 2,750 \text{ g}$ and $1,000 + 450 = 1,450 \text{ g}$. Total: $2,750 + 1,450 = 4,200 \text{ g}$.

b) $4,200 = 4,000 + 200$, so 4 kg 200 g.

4,200 g; 4 kg 200 g

Scoring: 1 point for each part.

Total
20 points