

Grade 5 - Converting Measurement Units - Test Answer Key

Common Core 5.MD.A.1 · maths-pdf.fr/en/

Use this key to score the test out of 20 points. Each answer shows the conversion and a scoring guide. Give partial credit when the method is correct but one arithmetic step is wrong.

Grade 5 · Common Core State Standards: **5.MD.A.1**

Question 1 - Customary conversions [2 pts]

- a. $6 \times 3 = 18$, so 18 ft
- b. $64 \div 16 = 4$, so 4 lb

Scoring: 1 point for each correct conversion with unit.

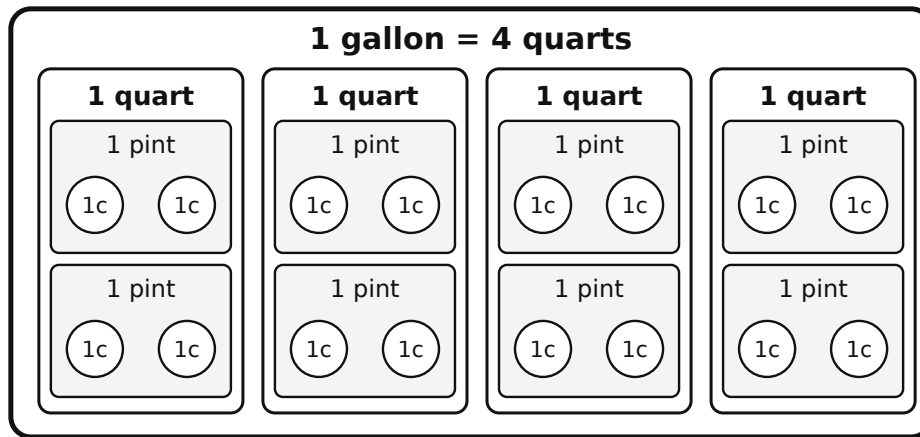
Question 2 - Metric conversions [2 pts]

- a. $5 \times 1,000 = 5,000$, so 5,000 mL
- b. $3,200 \div 1,000 = 3.2$, so 3.2 kg

Scoring: 1 point for each correct conversion with unit.

Question 3 - Cups in a tank [2 pts]

1 gal = 4 qt = 8 pt = 16 c. So $3 \times 16 = 48$ cups.



1 gallon = 4 quarts = 8 pints = 16 cups.

48 cups

Scoring: 1 point for using 16 cups in a gallon (or the chain 4, 2, 2), 1 point for 48 cups.

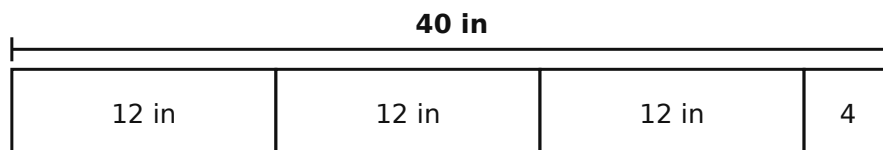
Question 4 - Compare measurements [2 pts]

- a. $5 \text{ ft} = 60 \text{ in}$, and $60 > 58$, so $5 \text{ ft} > 58 \text{ in}$
- b. $2 \text{ kg} = 2,000 \text{ g}$, and $2,000 < 2,500$, so $2 \text{ kg} < 2,500 \text{ g}$

Scoring: 1 point for each correct comparison supported by a conversion.

Question 5 - Ribbon length [2 pts]

Each foot is 12 in. $40 \div 12 = 3$ with a remainder of 4. So 3 feet use 36 inches and 4 inches are left.



$40 \text{ in} = 3 \text{ ft } 4 \text{ in}.$

3 ft 4 in

Scoring: 1 point for dividing by 12, 1 point for the answer 3 ft 4 in.

Question 6 - Bananas at the market [2 pts]

$2.5 \text{ kg} = 2.5 \times 1,000 = 2,500 \text{ g}$. Then $2,500 - 750 = 1,750$.

1,750 g

Scoring: 1 point for converting kilograms to grams, 1 point for subtracting correctly.

Question 7 - Bike ride [2 pts]

$7,920 \text{ ft} = 7,920 \div 5,280 = 1.5 \text{ mi}$. Total: $3 + 1.5 = 4.5 \text{ mi}$.

4.5 miles

Scoring: 1 point for converting feet to miles, 1 point for the total.

Question 8 - Milk for pancakes [3 pts]

- a. $3 \times 4 = 12$ cups
- b. $12 \div 2 = 6$ pints
- c. 12 cups = 3 quarts, so 3 cartons

Scoring: 1 point per part.

Question 9 - Pet food [3 pts]

- a. $2 \times 16 + 4 = 36$ oz
- b. $6 \times 5 = 30$ oz
- c. $36 - 30 = 6$ oz

Scoring: 1 point per part.

Total

20 points