

Grade 5 · Converting Units and Line Plots · Quiz

Common Core 5.MD.A.1, 5.MD.B.2 · mathovore.fr

Name: _____ Date: ____/____/____ Score: _____

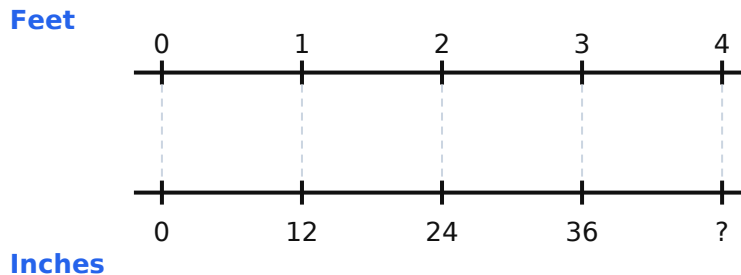
Choose the best answer for each of the 10 questions. Some questions use a figure. Think about whether you are going from a larger unit to a smaller unit before you multiply or divide.

Grade 5 Common Core: 5.MD.A.1 · 5.MD.B.2

Questions

Question 1

What is 4 ft in inches?



Each foot is 12 inches.

- A. 16 in
- B. 36 in
- C. 48 in
- D. 144 in

Question 2

Convert 3.5 kg to grams.

- A. 350 g
- B. 35 g
- C. 3,500 g
- D. 35,000 g

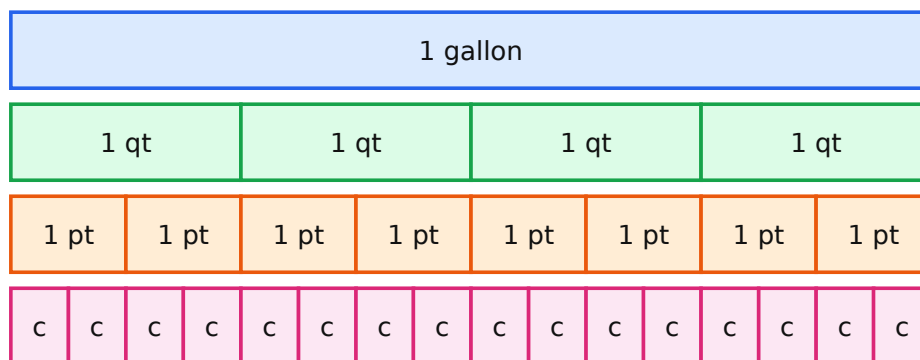
Question 3

Convert 64 oz to pounds.

- A. 1,024 lb
- B. 48 lb
- C. 8 lb
- D. 4 lb

Question 4

How many cups are in 2 gal?



One gallon is 16 cups.

- A. 8 c
- B. 16 c
- C. 32 c
- D. 64 c

Question 5

Which length is the greatest?

- A. 5 ft
- B. $1\frac{3}{4}$ yd
- C. 50 in
- D. 1.5 yd

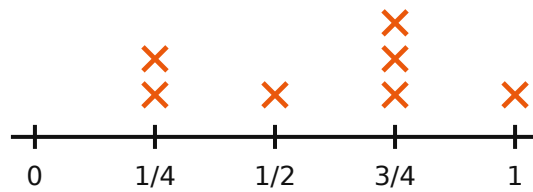
Question 6

Convert 725 cm to meters.

- A. 72.5 m
- B. 0.725 m
- C. 72,500 m
- D. 7.25 m

Question 7

How many bags are longer than $\frac{1}{2}$ pound?



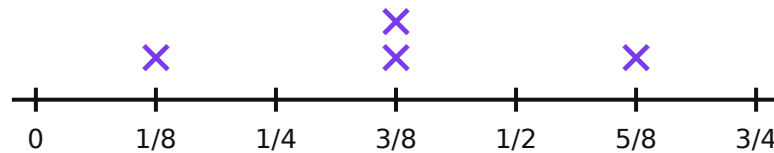
Bag weight (pounds)

Weights of 7 bags.

- A. 3 bags
- B. 4 bags
- C. 2 bags
- D. 7 bags

Question 8

The line plot shows the pounds of rice in 4 bags. If the rice is shared equally, how much is in each bag?



Rice in a bag (pounds)

Rice in 4 bags.

- A. $\frac{3}{8}$ lb
- B. $1\frac{1}{2}$ lb
- C. $\frac{1}{4}$ lb
- D. $\frac{1}{2}$ lb

Question 9

A race is 2 miles long. Liam has run 4,000 feet. How many feet are left?

- A. 14,560 ft
- B. 6,560 ft
- C. 1,280 ft
- D. 5,560 ft

Question 10

Which statement is true?

- A. 2.5 L = 2,500 mL
- B. 2.5 L = 250 mL
- C. 2.5 L = 25 mL
- D. 2.5 L = 25,000 mL

Answer key

1. **C** – Feet to inches means multiplying by 12: $4 \times 12 = 48$. Adding 12 instead of multiplying gives 16.
2. **C** – Kilograms are larger than grams, so multiply by 1,000: $3.5 \times 1,000 = 3,500$. Multiplying by 100 gives 350.
3. **D** – Ounces are smaller, so divide by 16: $64 \div 16 = 4$. Multiplying by 16 is the usual mistake.
4. **C** – One gallon is 16 cups, so two gallons are $2 \times 16 = 32$ cups. Using 4 cups per quart and stopping gives 8.
5. **B** – $1\frac{3}{4}$ yd is 63 in, 5 ft is 60 in, 50 in is 50 in, and 1.5 yd is 54 in. Compare in a common unit.
6. **D** – Centimeters are smaller, so divide by 100: $725 \div 100 = 7.25$. Dividing by 10 gives 72.5.
7. **B** – Longer than $\frac{1}{2}$ means the marks at $\frac{3}{4}$ (3 bags) and 1 (1 bag): $3 + 1 = 4$. Counting the $\frac{1}{2}$ mark is a mistake because it is not longer.
8. **A** – The total is $\frac{1}{8} + \frac{3}{8} + \frac{3}{8} + \frac{5}{8} = \frac{12}{8}$ pounds. Divide by 4 bags: $\frac{12}{8} \div 4 = \frac{3}{8}$. The total alone is not the share.
9. **B** – The race is $2 \times 5,280 = 10,560$ ft. Subtract: $10,560 - 4,000 = 6,560$. Adding instead of subtracting gives 14,560.
10. **A** – One liter is 1,000 mL, so $2.5 \times 1,000 = 2,500$. The other choices use the wrong power of ten.

Remember:

- Larger unit to smaller unit: multiply. Smaller unit to larger unit: divide.
- 1 foot = 12 inches, 1 yard = 3 feet, 1 pound = 16 ounces, 1 gallon = 4 quarts.
- Metric units use powers of 10: 1 meter = 100 centimeters and 1 kilometer = 1,000 meters.
- On a line plot, each X stands for one measurement.
- Equal share = total of the data divided by the number of data values.