

Grade 5 · Converting Units and Line Plots · Worksheet

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

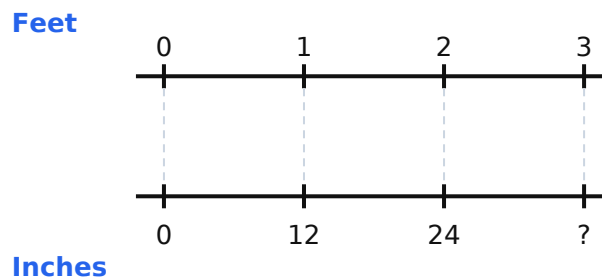
Name: _____ Date: ____/____/____ Score: _____

These 22 problems practice converting customary and metric units and using line plots with fractions, the skills in standards 5.MD.A.1 and 5.MD.B.2. The first problems convert one step at a time. Later problems add tables, line plots, and multi-step word problems from bake sales, hikes, and the kitchen.

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

Problem 1: Feet to inches

Convert 3 ft to inches.



Each foot is 12 inches.

Problem 2: Yards to feet

Convert 7 yd to feet.

Problem 3: Pounds to ounces

Convert 5 lb to ounces.

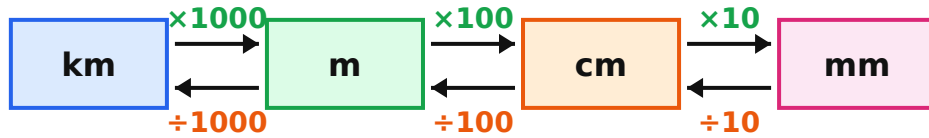
Problem 4: Gallons to quarts

Convert 6 gal to quarts.

Problem 5: Meters to centimeters

Convert 4 m to centimeters.

Moving right: multiply (units get smaller)



Moving left: divide (units get larger)

Use the arrow from m to cm.

Problem 6: Kilograms to grams

Convert 2.5 kg to grams.

Problem 7: Inches to feet

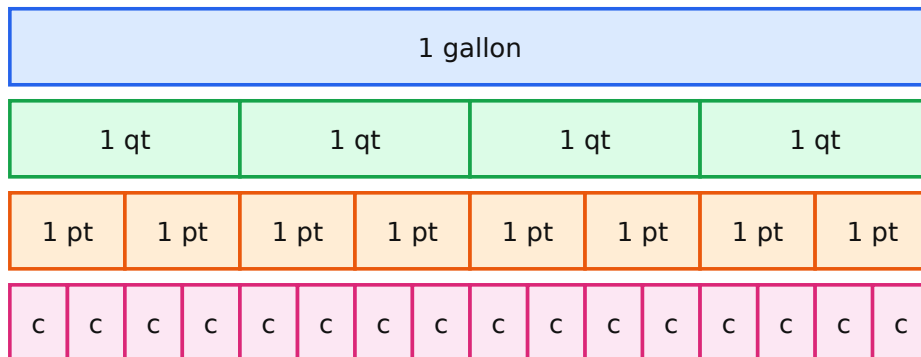
Convert 60 in to feet.

Problem 8: Ounces to pounds

Convert 48 oz to pounds.

Problem 9: Cups to quarts

Convert 20 c to quarts.



One quart is 4 cups.

Problem 10: Millimeters to centimeters

Convert 450 mm to centimeters.

Problem 11: Milliliters to liters

Convert 3,500 mL to liters.

Problem 12: Minutes to hours

Convert 150 min to hours. Write the answer as a decimal and as hours and minutes.

Problem 13: Complete the table

Complete the table. Each row shows the same length in three units.

Yards	Feet	Inches
1	3	36
2	?	?
4	?	?

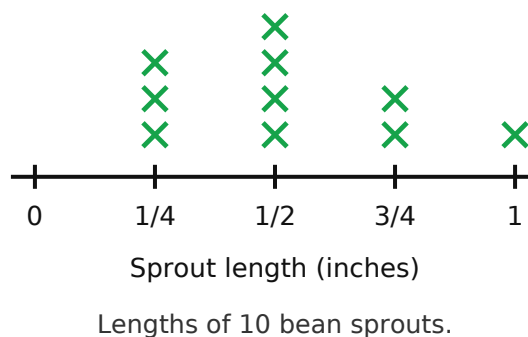
Fill in each ? with the matching length.

Problem 14: Compare lengths

Compare 3 yd and 100 in. Write which length is greater.

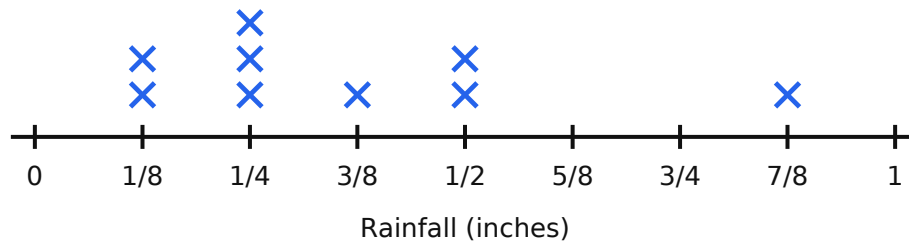
Problem 15: Counting on a line plot

Diego measured 10 bean sprouts in inches. Find how many sprouts are exactly $\frac{1}{2}$ inch long and how many are longer than $\frac{1}{2}$ inch.



Problem 16: Range of rainfall

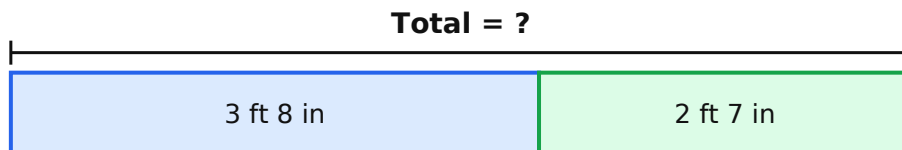
The line plot shows the rainfall on 9 days. Find the difference between the greatest and the least amount.



Daily rainfall in inches, in eighths.

Problem 17: Two ribbons

Aisha has two ribbons. One is 3 ft 8 in long and the other is 2 ft 7 in long. Find their total length in inches, then in feet and inches.



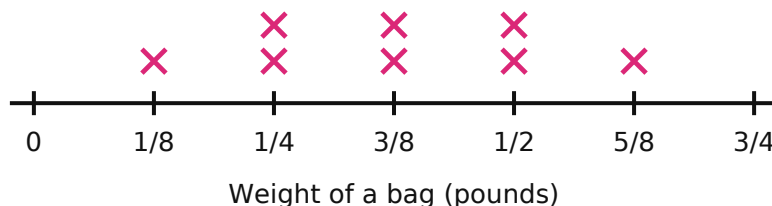
Two ribbons laid end to end.

Problem 18: Lemonade stand

Sofia fills a 3-gallon cooler with lemonade for the bake sale and sells it by the cup. She sells 35 cups. How many cups are left?

Problem 19: Trail mix bags

Ethan packed 8 bags of trail mix. The line plot shows the weight of each bag in pounds. Find the total weight, then find how much each bag would weigh if all bags were filled equally.



Weights of 8 bags of trail mix.

Problem 20: Hiking trail

A trail is 2.5 miles long. Jamal has walked 9,240 feet. How many feet are left? How many miles

is that?

Problem 21: Water bottles

Priya has three bottles that hold 750 mL each. Can she pour all the water into a 2 L jug? Explain.

Problem 22: Pancake milk

Diego makes 6 batches of pancakes for the school breakfast. Each batch uses 3 cups of milk. Milk comes in 1-quart cartons. How many cartons must he buy, and how many cups are left over?