

Grade 6 · Converting Measurement Units · Worksheet

Common Core 6.RP.A.3d · mathovore.fr

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

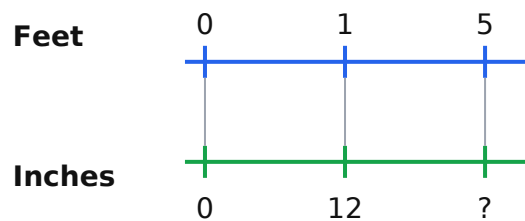
These 20 problems practice converting measurement units with ratio reasoning from standard 6.RP.A.3d. They start with one-step conversions of length, weight, and capacity, then move to metric units, miles, and tape diagrams.

The last six problems chain several conversions in real settings such as a fabric store, a water cooler, a walk to school, a baseball field, and a hiking trail. Show each conversion factor you use.

Grade 6 Common Core: 6.RP.A.3d

Problem 1: Feet to inches

Convert 5 feet to inches.



1 foot matches 12 inches.

Problem 2: Inches to feet

Convert 84 inches to feet.

Problem 3: Pounds to ounces

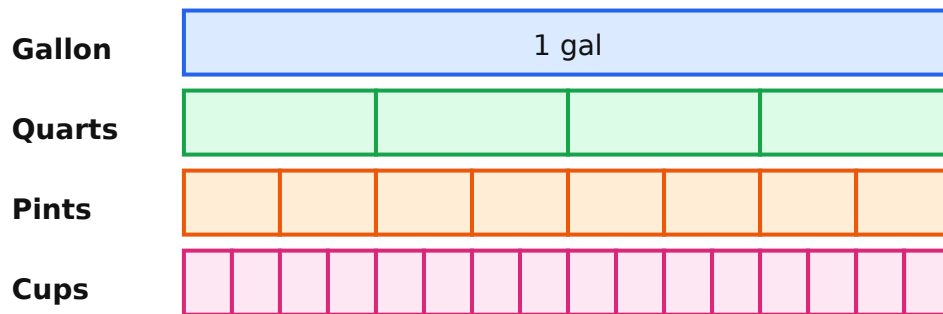
A bag of apples weighs 4 pounds. Find its weight in ounces.

Problem 4: Yards to feet

Convert 8 yards to feet.

Problem 5: Gallons to quarts

Convert 3 gallons to quarts.



Gallons, quarts, pints, and cups.

Problem 6: Quarts to cups

Jamal buys 7 quarts of orange juice. Convert 7 quarts to cups.

Problem 7: Feet to yards

The cheer squad hangs an 18-foot banner on the fence. Convert 18 feet to yards.

Problem 8: Ounces to pounds

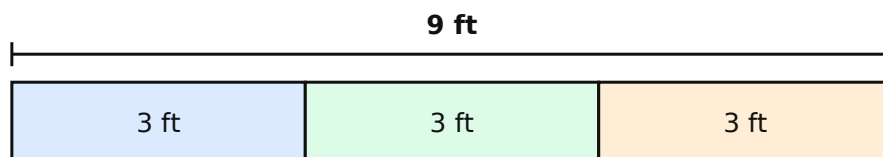
A bag of flour weighs 96 ounces. Convert 96 ounces to pounds.

Problem 9: Cups, pints, and quarts

Maya buys 12 cups of milk. Convert 12 cups to pints and to quarts.

Problem 10: Board in yards

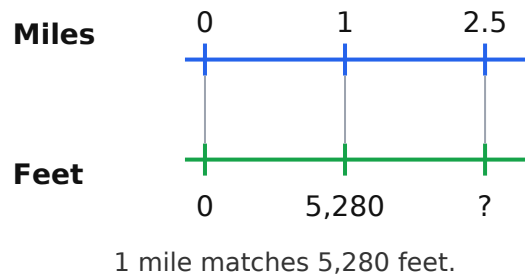
A carpenter cuts a 9-foot board into three equal pieces, as shown. Each piece is 3 feet long. Find the length of the whole board in yards and in inches.



A 9-foot board in three equal pieces.

Problem 11: Miles to feet

Convert 2.5 miles to feet.



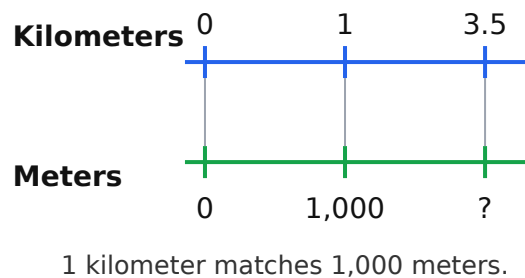
Problem 12: Kilograms and grams

Convert each measurement.

- a. 2.4 kg to grams
- b. 3,500 g to kilograms
- c. 0.6 kg to grams

Problem 13: Metric lengths

Convert (a) 3.5 kilometers to meters and (b) 450 centimeters to meters.



Problem 14: Centimeters, millimeters, meters

Convert each length.

- a. 12.5 cm to millimeters
- b. 2.3 m to centimeters
- c. 840 mm to meters

Problem 15: Fabric for a costume

Sofia needs 3.5 yards of fabric for a costume. The fabric store sells it for \$4 per foot. Find the

total cost.

Problem 16: Shipping a box

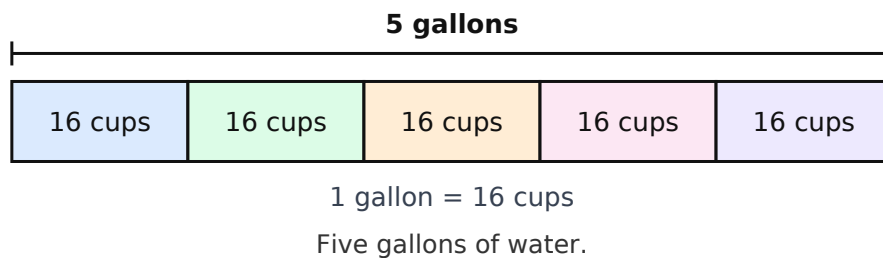
Jamal packs three books that weigh 1.5 pounds, 2.25 pounds, and 0.75 pound. The post office allows a package of at most 5 pounds.

- Find the total weight of the books in pounds.
- Find the total weight in ounces.
- How many more ounces can Jamal add before the package reaches the limit?

Problem 17: Water cooler

Coach Rivera fills a 5-gallon cooler with water for a Little League game. During the break, each player drinks 2 cups of water.

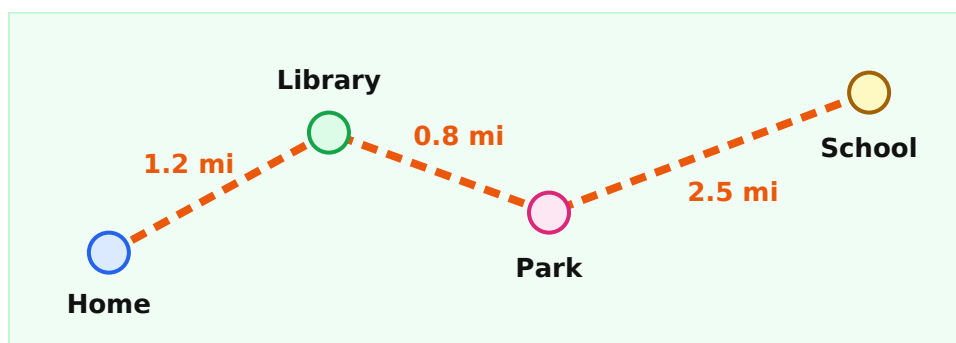
- How many cups of water does the cooler hold?
- How many players can drink 2 cups each?



Problem 18: Walk to school

Ethan walks from home to the library (1.2 miles), then to the park (0.8 mile), and then to school (2.5 miles), as shown on the map.

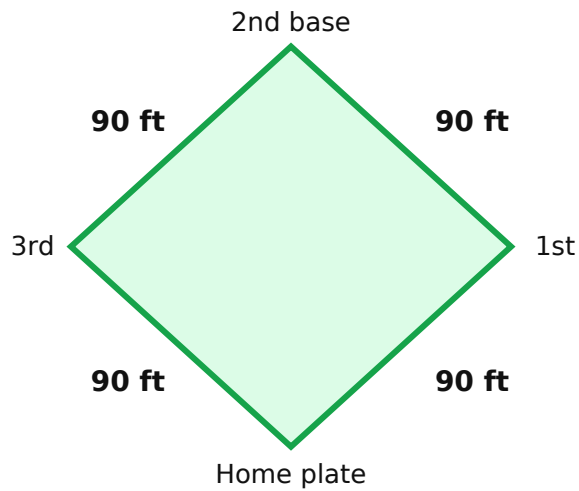
- Find the total distance in miles.
- Find the total distance in feet.
- Find the total distance in yards.



Ethan's route on a map.

Problem 19: Base paths

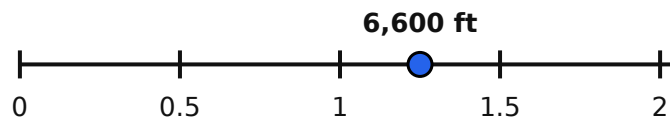
The bases on a Little League field are 90 feet apart. A runner circles all four bases. Find the distance in feet and in yards.



A baseball diamond with four 90-foot sides.

Problem 20: Hiking trail

A hiking trail is 2 miles long. Liam has walked 6,600 feet. How many feet are left, and how many miles is that?



The trail is 2 miles long; 6,600 feet is 1.25 miles.