

Grade 6 - Converting Measurement Units with Ratios - Worksheet

Common Core 6.RP.A.3d · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

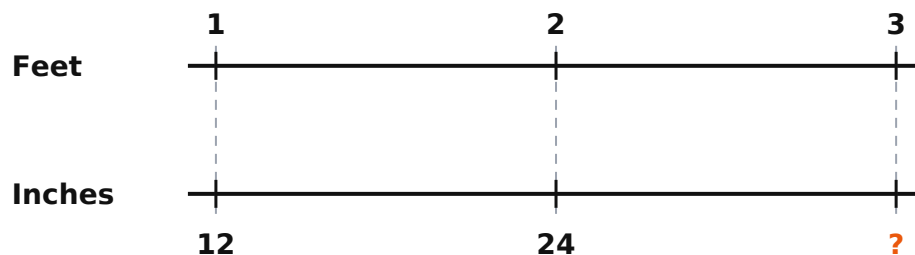
This **unit conversions worksheet** for 6th Grade covers converting measurement units with ratios (Common Core 6.RP.A.3d), with a free PDF to print.

These 20 problems practice converting measurement units with ratio reasoning (Common Core 6.RP.A.3d). You will change length, weight, capacity, time, and metric units, compare measurements, convert rates, and solve multi-step word problems.

Grade 6 · Common Core State Standards: **6.RP.A.3d**

Unit conversions worksheet: exercises 1 to 10

Exercise 1 - Feet to inches



Each foot is 12 inches.

Convert 3 feet to inches.

Exercise 2 - Yards to feet

Convert 5 yards to feet.

Exercise 3 - Inches to feet

Convert 48 inches to feet.

Exercise 4 - Pounds to ounces

A bag of potatoes weighs 4 pounds. Convert the weight to ounces.

Exercise 5 - Ounces to pounds

Convert 96 ounces to pounds.

Exercise 6 - Gallons to quarts



One gallon equals four quarts.

Convert 3 gallons to quarts.

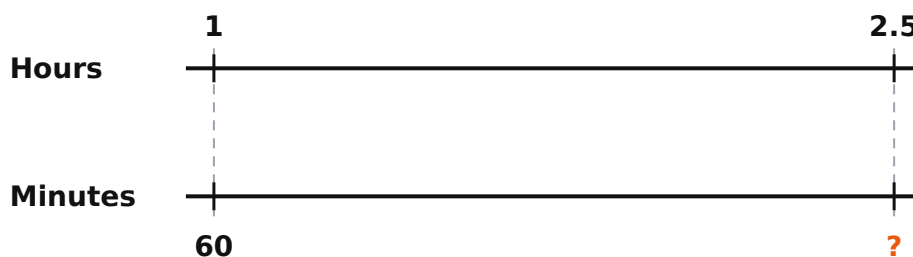
Exercise 7 - Cups to fluid ounces

A pitcher holds 5 cups of juice. Convert to fluid ounces (1 cup = 8 fluid ounces).

Exercise 8 - Pints to quarts

Convert 24 pints to quarts (2 pints = 1 quart).

Exercise 9 - Hours to minutes



Each hour is 60 minutes.

Convert 2.5 hours to minutes.

Exercise 10 - Seconds to minutes

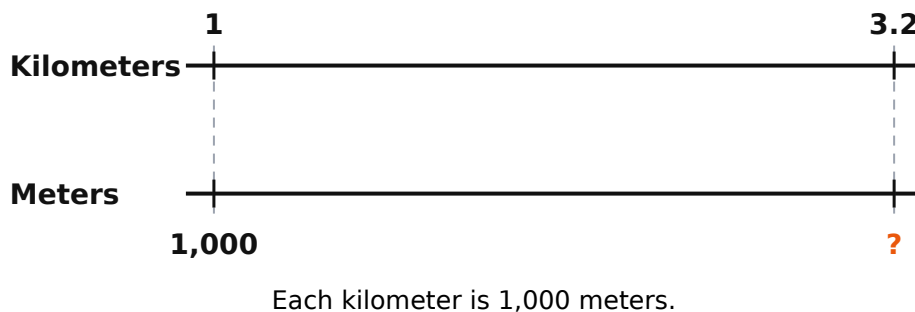
A song lasts 270 seconds. Convert to minutes.

Exercises 11 and up

Exercise 11 - Centimeters to meters

Convert 450 centimeters to meters.

Exercise 12 - Kilometers to meters



Dana hiked 3.2 kilometers. Convert the distance to meters.

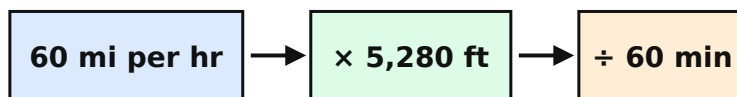
Exercise 13 - Grams to kilograms

A box of books has a mass of 2,500 grams. Convert to kilograms.

Exercise 14 - Milliliters to liters

A bottle holds 750 milliliters. Convert to liters.

Exercise 15 - Unit rate conversion



Two conversions.

A train travels at 60 miles per hour. Convert its speed to feet per minute (1 mile = 5,280 feet).

Exercise 16 - Miles to feet

Maya runs 1.5 miles. Find the distance in feet (1 mile = 5,280 feet).

Exercise 17 - Lemonade servings

A school fair makes 2 gallons of lemonade. Each serving is 1 cup. Find how many servings it makes (1 gallon = 16 cups).

Exercise 18 - Which is longer?

Which is longer, 2.5 yards or 80 inches? Convert to the same unit and compare.

Exercise 19 - Flour loaves

A baker has a 5-pound bag of flour. Each loaf uses 12 ounces. Find how many full loaves she can make and how many ounces are left.

Exercise 20 - Cutting rope

Ethan has a rope that is 3.6 meters long. He cuts it into pieces that are 45 centimeters long. Find the number of pieces.

Key facts behind this unit conversions worksheet

Key facts

- A conversion factor is a ratio between two units, like 12 inches to 1 foot.
- Larger unit to smaller unit: multiply. Smaller to larger: divide.
- Metric conversions use 10, 100, and 1,000.
- Convert to the same unit before comparing amounts.
- Rates can be converted by converting each unit in turn.

How to use this unit conversions worksheet

Work through the exercises in order: they go from simple to challenging. Write every step on paper, then compare with the solutions page and redo any exercise you missed the next day.