

Grade 4 · Measurement Conversions and Word Problems · Worksheet

Common Core 4.MD.A.1, 4.MD.A.2 · mathovore.fr

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

These 24 problems practice standards 4.MD.A.1 and 4.MD.A.2. Students change larger units to smaller units, complete conversion tables, and compare measurements.

The last problems are word stories about distance, elapsed time, liquid volume, mass, and money. Every problem has a full worked answer in the answer key.

Grade 4 Common Core: 4.MD.A.1 · 4.MD.A.2

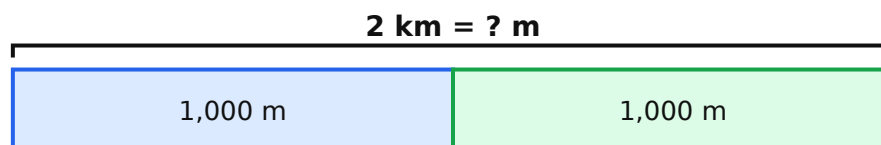
Problem 1: Meters to centimeters

Change each length to centimeters.

- a. 3 m = ? cm
- b. 7 m = ? cm
- c. 12 m = ? cm
- d. 25 m = ? cm

Problem 2: Kilometers to meters

Change each distance to meters.



Two kilometers is two pieces of 1,000 m.

- a. 2 km = ? m
- b. 6 km = ? m
- c. 9 km = ? m
- d. 15 km = ? m

Problem 3: Kilograms to grams

Change each mass to grams.

- a. 4 kg = ? g
- b. 8 kg = ? g
- c. 13 kg = ? g
- d. 20 kg = ? g

Problem 4: Liters to milliliters

Change each volume to milliliters.

- a. 5 L = ? mL
- b. 9 L = ? mL
- c. 11 L = ? mL
- d. 30 L = ? mL

Problem 5: Pounds to ounces

Change each weight to ounces.

- a. 2 lb = ? oz
- b. 5 lb = ? oz
- c. 8 lb = ? oz
- d. 10 lb = ? oz

Problem 6: Hours to minutes

Change each time to minutes.

- a. 3 hr = ? min
- b. 6 hr = ? min
- c. 8 hr = ? min
- d. 12 hr = ? min

Problem 7: Minutes to seconds

Change each time to seconds.

- a. 2 min = ? sec
- b. 5 min = ? sec
- c. 9 min = ? sec
- d. 10 min = ? sec

Problem 8: Complete the table

Complete the table of meters and centimeters.

Meters (m)	Centimeters (cm)
2	?
5	?
9	?
14	?

Write the missing centimeters.

Problem 9: Mixed units to one unit

Write each measurement using only the smaller unit.

- a. 3 km 250 m
- b. 5 m 40 cm
- c. 2 kg 500 g
- d. 4 lb 6 oz

Problem 10: Hours, minutes, seconds

Change each time to the smaller unit.

- a. 2 hr 30 min
- b. 1 hr 45 min
- c. 3 hr 10 min
- d. 5 min 20 sec

Problem 11: Fractions of a unit

Write each measurement in the smaller unit.

- a. $\frac{1}{2}$ km
- b. $\frac{1}{4}$ kg
- c. $\frac{3}{4}$ hr
- d. $\frac{1}{2}$ L
- e. $\frac{1}{4}$ m

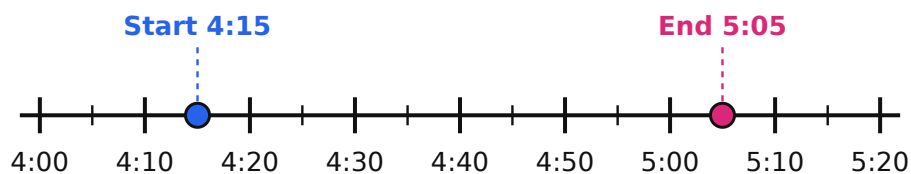
Problem 12: Compare measurements

Compare. Write $<$, $>$, or $=$ for each pair.

- a. 3 m $[\backslash][\backslash]$ 290 cm
- b. 2 kg $[\backslash][\backslash]$ 2,500 g
- c. 5 L $[\backslash][\backslash]$ 5,000 mL
- d. 2 hr $[\backslash][\backslash]$ 100 min

Problem 13: Elapsed time on a number line

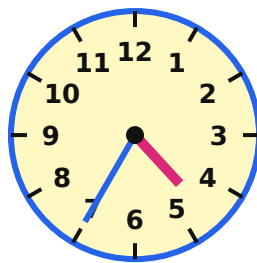
Sofia's soccer practice starts and ends at the times shown. Find how many minutes the practice lasts.



Practice starts at 4:15 and ends at 5:05.

Problem 14: Elapsed time on a clock

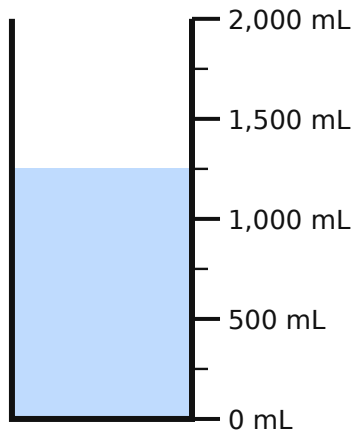
Jamal starts his homework at the time shown on the clock. He finishes at 5:20. How many minutes does he work?



Jamal's start time.

Problem 15: Reading a measuring jug

The jug holds 2 L when full. Mei fills it to the level shown. How many more milliliters does she need to pour to fill the jug?



The jug is filled to 1,250 mL.

Problem 16: Cheese and change

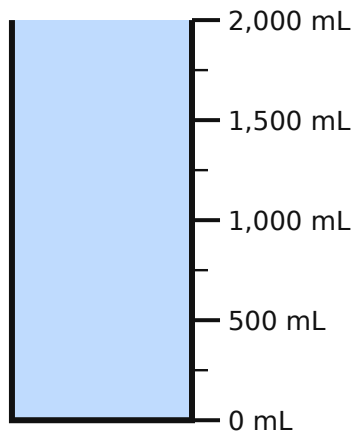
Cheese costs \$6 per pound. Priya buys 3 pounds and pays with a \$20 bill. How much change does she get?

Problem 17: Morning runs

Diego runs 2 km 400 m every morning. How many meters does he run in 5 mornings?

Problem 18: Lemonade cups

Aisha pours 2 L of lemonade into cups that each hold 250 mL. How many full cups does she fill?



A full jug holds 2 L.

Problem 19: Movie night

A movie starts at 6:40 p.m. and lasts 2 hr 25 min. What time does it end?

Problem 20: Backpack mass

Ethan's backpack has a mass of 3 kg 200 g. His lunch has a mass of 450 g. What is the total mass in grams?

Problem 21: Biking distance

Liam bikes 3 km on Monday and 2,500 m on Tuesday. How far does he bike in all? Give the answer in meters, and then in kilometers and meters.

Problem 22: Baking batches

A bag holds 5 lb of flour. Each batch of bread uses 12 oz. How many full batches can Noah make, and how many ounces of flour are left?

Problem 23: Farmers market

At the farmers market, potatoes cost \$2 per pound. Maya buys 2 lb 8 oz of potatoes. How much does she pay?

Problem 24: Swim laps

Mei swims 4 laps. Each lap takes 90 seconds. How many minutes does she swim in all?