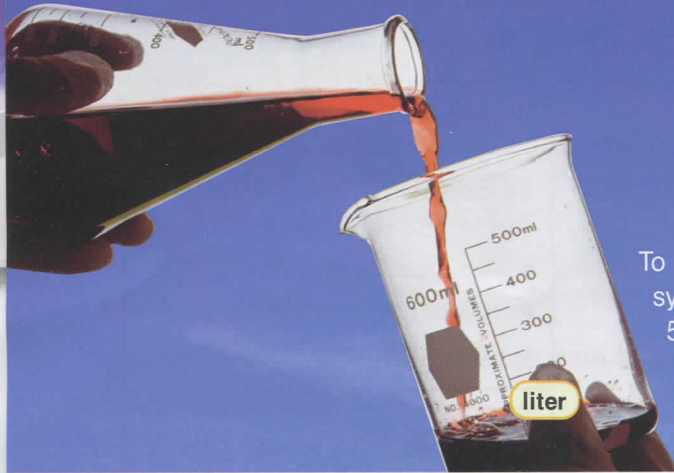


## CONVERSION CHART

# imperial vs. metric units



Don't know the difference between a pound and a kilogram? This chart will help you figure it out!

Measurements of Volume

**1 gallon** = 3.79 liters

Measurements of Weight

**1 pound** = 0.45 kilograms

Measurements of Distance

**1 mile** = 1.61 kilometers

Measurements of Area

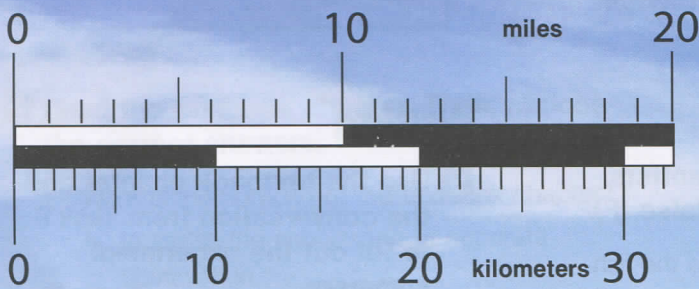
**1 acre** = 0.4 hectares

To **convert** a measurement from imperial units to the metric system, just multiply.

5 gallons to liters:  $5 \times 3.79 = 18.95$  liters.

To convert a measurement from metric units to imperial units, just divide.

12 kilograms to pounds:  $12 \div 0.45 = 26.67$  pounds



## Get ready!

**1** Before you read the passage, talk about these questions.

- 1 What are some measurements of volume?
- 2 What are some measurements of weight?

## Reading

**2** Read the conversion chart. Then, mark the following statements as true (T) or false (F).

- 1  Liters and pounds measure the same aspects of an object.
- 2  To convert to kilograms, one multiplies the number of pounds by 0.45.
- 3  An acre is less than half of a hectare.

## Vocabulary

**3** Match the words (1-5) with the definitions (A-E).

- |                                  |                                  |                                    |
|----------------------------------|----------------------------------|------------------------------------|
| 1 <input type="checkbox"/> acre  | 3 <input type="checkbox"/> mile  | 5 <input type="checkbox"/> convert |
| 2 <input type="checkbox"/> liter | 4 <input type="checkbox"/> pound |                                    |

- A an imperial unit of distance
- B a metric unit of volume
- C an imperial unit of weight
- D to change something into another form
- E an imperial unit of area

4 Read the sentence pairs. Choose where the words best fit the blanks.

1 metric / imperial

A The \_\_\_\_\_ system uses the liter.

B The \_\_\_\_\_ system uses the mile.

2 kilograms / kilometers

A Use a scale to measure \_\_\_\_\_.

B \_\_\_\_\_ are shown on a map.

3 hectares / gallons

A The scientist took ten \_\_\_\_\_ of water from the river.

B The forest is more than 1,000 \_\_\_\_\_.

5 Listen and read the conversion chart again. What is one imperial measurement for distance?

## Listening

6 Listen to a conversation between two scientists. Check (✓) the measurements that the scientists take.

1  mile

4  liter

2  kilometer

5  hectare

3  kilogram

7 Listen again and complete the conversation.

Scientist 1: Did you get the 1 \_\_\_\_\_ the field?

Scientist 2: Yes, it's 1.2 miles. Shouldn't we write down the 2 \_\_\_\_\_, too?

Scientist 1: Sure. I mean, it certainly can't hurt. How do I 3 \_\_\_\_\_?

Scientist 2: Let's see, 4 \_\_\_\_\_ equals 1.61 kilometers.

Scientist 1: So 1.2 times 1.61 equals 1.93 5 \_\_\_\_\_.

Scientist 2: We should probably do the area, too. It's 940 6 \_\_\_\_\_.

## Speaking

8 With a partner, act out the roles below based on Task 7. Then switch roles.

### USE LANGUAGE SUCH AS:

*Shouldn't we write ...?*

*How do I ...?*

*One ... equals ...*

**Student A:** You are a scientist. Talk to Student B about:

- measurements
- which measurement system to use
- how to convert between systems

**Student B:** You are a scientist. Talk to Student A about converting between measurement systems.

## Writing

9 Use the conversion chart and the conversation from Task 8 to fill out the conversion notes.



## Conversion Notes:

Measurements of: Volume

There are \_\_\_\_\_ in a(n) \_\_\_\_\_.

Two \_\_\_\_\_ equals \_\_\_\_\_.

Measurements of: \_\_\_\_\_

There are \_\_\_\_\_ in a(n) \_\_\_\_\_.

Half of a(n) \_\_\_\_\_ equals \_\_\_\_\_.