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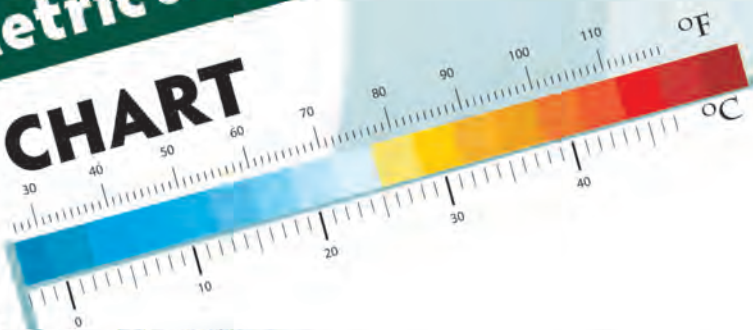
Get ready!

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

- 1 What units of measurement do people use in your country?
- 2 What advantages does the metric system have compared to the imperial system?

Imperial VS Metric UNITS CONVERSION CHART

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



IMPERIAL UNITS 1 pound = 0.453 kilos



METRIC UNITS 1 kilo = 2.205 pounds

Measurements of Temperature

Use the following formula to convert **degrees** in **Fahrenheit** (°F) to **Celsius** (°C): $^{\circ}\text{C} = (^{\circ}\text{F} - 32) \times \frac{5}{9}$

Measurements of Weight

1 **pound** = .45 **kilograms**
1 **ounce** = 28.35 **grams**

Measurements of Length

1 **inch** = 2.54 **centimeters**

To **convert** a measurement from imperial units to the metric system, just multiply.
5 inches to centimeters: $5 \times 2.54 = 12.7$ centimeters.

To convert a measurement from metric units to imperial units, just divide.
12 kilograms to pounds: $12 \div .45 = 26.67$ pounds.

Reading

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

- 1 A two-pound object is heavier than a two-kilogram object.
- 2 A gram of matter is equal to several ounces.
- 3 To calculate inches, someone can divide a number of centimeters by 2.54.

Vocabulary

3 Match the words (1-7) with the definitions (A-G).

- | | |
|-------------------------------------|---------------------------------------|
| 1 <input type="checkbox"/> ounce | 5 <input type="checkbox"/> kilogram |
| 2 <input type="checkbox"/> metric | 6 <input type="checkbox"/> centimeter |
| 3 <input type="checkbox"/> Celsius | 7 <input type="checkbox"/> Fahrenheit |
| 4 <input type="checkbox"/> imperial | |

- A a system of measurement based on meters and grams
- B a temperature system in which water boils at 212 degrees
- C a temperature system in which water freezes at zero degrees
- D a system of measurement based on feet and pounds
- E a unit equal to one sixteenth of a pound
- F a unit equal to one hundredth of a meter
- G a unit equal to one thousand grams

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

1 inch / pound

- A The sandwich weighed almost a(n) _____.
- B The coin is about a(n) _____ inch in diameter.

2 gram / degree

- A The paperclip weighed about one _____.
- B The temperature cooled one _____ over ten minutes.

5 Listen and read the conversion chart again. How can someone convert grams into ounces?

Listening

6 Listen to a conversation between two engineers. Choose the correct answers.

- 1 What is the conversation mostly about?
 - A why the woman prefers the metric system
 - B an error while making a measurement conversion
 - C the challenges of working with the imperial system
 - D the conversion rate for units of length
- 2 According to the woman, why should the man show measurements in both systems?
 - A It will make further conversions easier.
 - B Everyone will be able to read the measurements.
 - C Engineers tend to use both measurement systems.
 - D Other products include both types of measurements.

7 Listen again and complete the conversation.

Engineer 1: How should I list 1 _____ this hardware component?

Engineer 2: You should probably list them in both metric 2 _____ units.

Engineer 1: So, centimeters 3 _____, right?

Engineer 2: Yeah. That way, everyone will be able to read them.

Engineer 1: Good idea. Do you know the conversion rates? I always 4 _____.

Engineer 2: I think an inch 5 _____ 2.54 centimeters.

Engineer 1: Okay. This component is eight 6 _____ . Eight times 2.54 equals 20.32 centimeters.

Engineer 2: Yeah, that sounds about right.

Speaking

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

USE LANGUAGE SUCH AS:

How should I ...?

So if ... it ...?

I think ...

Student A: You are an engineer. Talk to Student B about:

- which system you should use to measure something
- how to convert measurements into the correct units

Student B: You are an engineer. Talk to Student A about conversion rates between measurement units.

Writing

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

Measurements of: Weight

There are _____ in a(n) _____.

Two _____ equals _____.

Measurements of: _____

There are _____ in a(n) _____.

Half of a(n) _____ equals _____.