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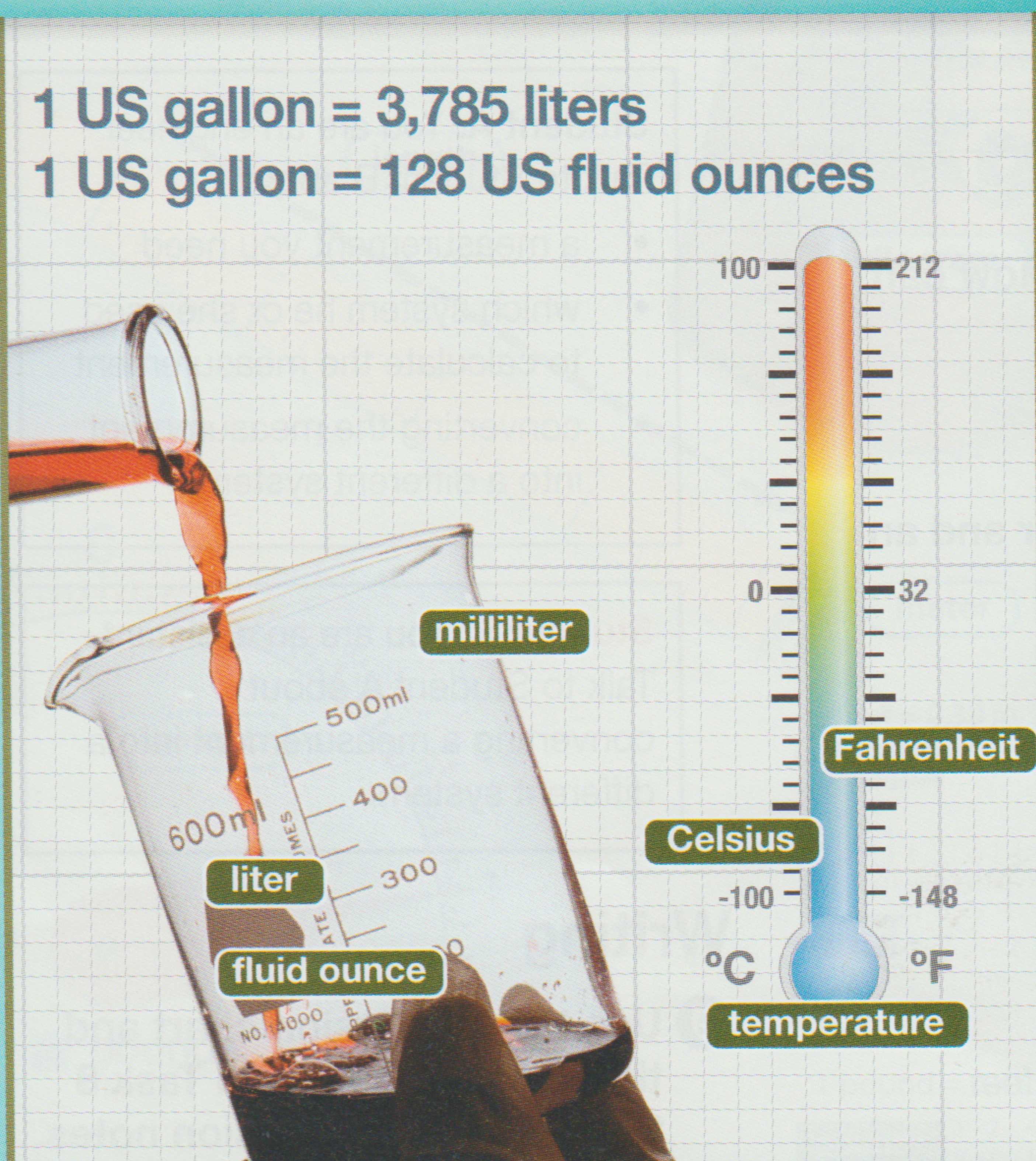
1 Before you read the passage, talk about these questions.

1 What are some different measurements of volume?

2 What is the difference between the Celsius system and the Fahrenheit system?

1 US gallon = 3,785 liters
1 US gallon = 128 US fluid ounces

milliliter
500ml
400
liter
300
fluid ounce

Celsius
Fahrenheit
°C   °F
temperature

To: l.stevens@gradycorp.net
From: k.fanshaw@gradycorp.net
Subject: Measurements on the Lynwood project

Hi Lisa,

I need some new measurements on the Lynwood project. Some of the quantities were in the wrong measurement system.

The liquid measurements must be in metric units. You recorded the **volume** in **gallons** and **fluid ounces**. I need them in **liters** instead. And remember, don't express small quantities as **cubic centimeters**. Our company always expresses them as **milliliters** instead.

Also, we need new measurements of **temperature**. We always use the **Celsius** scale. You can **convert** the **Fahrenheit** measurements with a simple formula: °C x ⅝ + 32 = °F.

Please remember to record measurements correctly next time. Let me know if you have any questions.

Kevin

Reading

2 Read the email. Then, choose the correct answers.

1 What is the email mainly about?

A which features of a machine to measure

B the benefits of using a particular measuring system

C the consequences of making errors when measuring

D measurements that need to be corrected

2 Which of the following is NOT an instruction in the email?

A Record volume measurements in fluid ounces.

B Avoid expressing measurements in gallons.

C Use milliliters instead of cubic centimeters.

D Convert Fahrenheit measurements into Celsius.

3 According to the email, what is the problem with the measurements?

A They are inaccurate.

B They are expressed in very small units.

C They are in the wrong system.

D They are incomplete.

Vocabulary

3 Match the words (1-6) with the definitions (A-F).

1 __ Celsius   4 __ Fahrenheit

2 __ convert   5 __ fluid ounce

3 __ milliliter   6 __ temperature

A a measurement that uses the scale in which water boils at 100°

B to change something into a different form or system

C an imperial unit of volume

D the measure of how hot or cold something is

E a metric unit of volume

F a measurement that uses the scale in which water boils at 212°

4 Read the sentences and choose the correct words or phrases.

1 The engineer measured the amount of water in **Celsius/liters**.

2 A **gallon/milliliter** contains 128 fluid ounces.

3 **Temperature/Volume** measures an amount of space.

4 A **cubic centimeter/fluid ounce** is a metric unit.

5 🎧 Listen and read the email again. What is the formula for converting Celsius to Fahrenheit?

Listening

6 🎧 Listen to a conversation between an engineer and an assistant. Mark the following statements as true (T) or false (F).

1 __ The man corrected the woman's volume measurement.

2 __ The woman calculated volume in fluid ounces.

3 __ The woman gives the temperature measurement in both scales.

7 🎧 Listen again and complete the conversation.

Engineer:	Lisa, do you have the new measurements for the Lynwood project?
Assistant:	Yes, I just **1** _____ _____ _____ .
Engineer:	Great. So **2** _____ _____ _____ of the fuel tank?
Assistant:	Let me see. That was 94.5.
Engineer:	Now that's a **3** _____ _____ , right?
Assistant:	Yes. It was 25 **4** _____ . That times 3.78 equals about 94.5 liters.
Engineer:	Okay. And **5** _____ _____ the temperature in the tank?
Assistant:	It was 104 degrees Fahrenheit. So that's about 40 **6** _____ _____ .

Speaking

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

USE LANGUAGE SUCH AS:

Do you have ...?
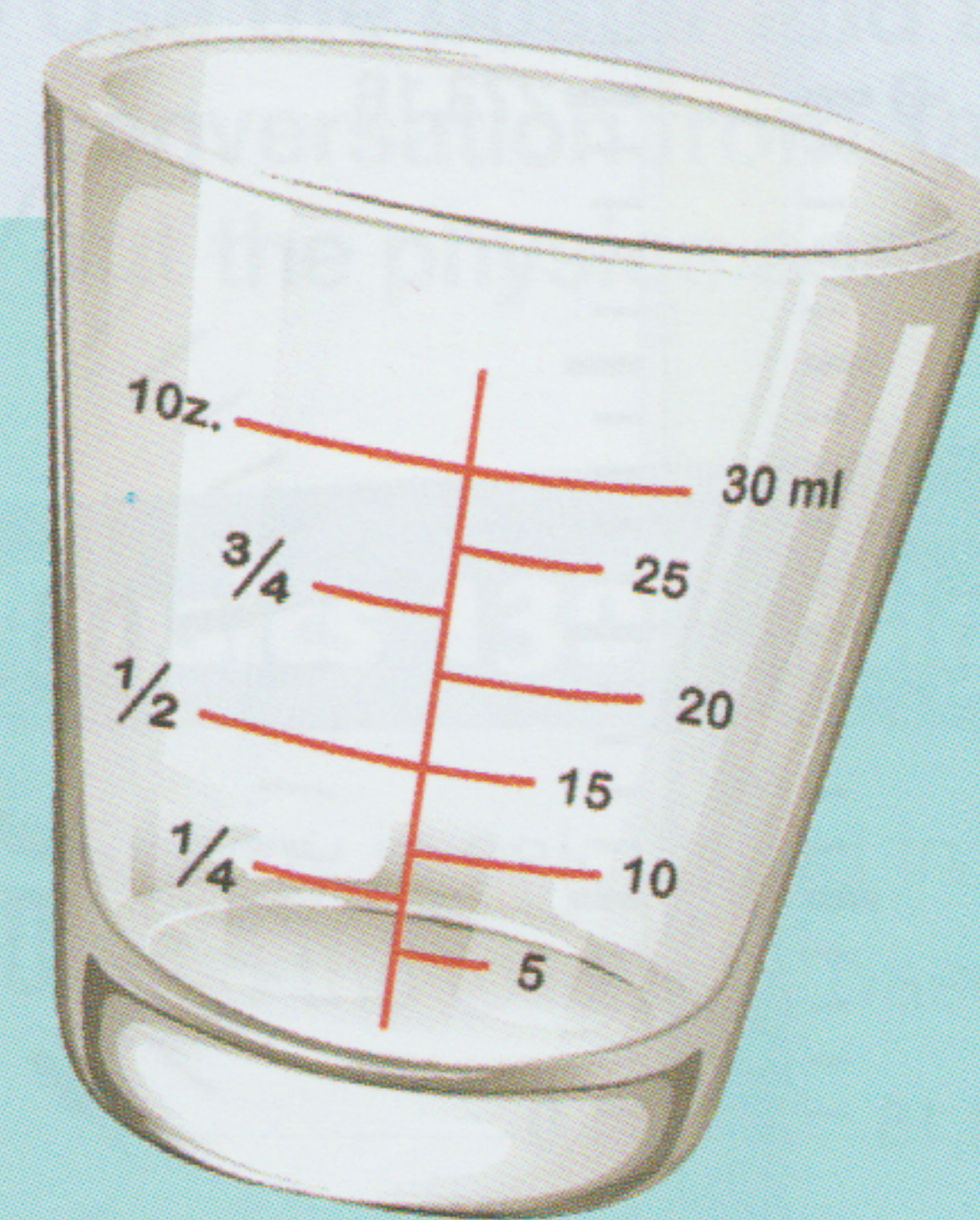*Now, that's a ... measurement, right?*
That equals ...

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

• measurement conversions
• which types of measurements you need
• which system you prefer

Student B: You are an assistant. Talk to Student A about measurement conversions.

Writing

9 Use the email and the conversation from Task 8 to fill out the email from an assistant to an engineer.

Hi Kevin,

Here are the measurement conversions that you requested.

Volume: There were 3.6 _____ in the chamber. To convert that into _____ instead, I used the following formula: _____ .

Temperature: The temperature was 60 degrees Celsius. To convert that into _____ instead, I used the following formula: _____ .

I'll remember to use the correct system next time.

Lisa

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