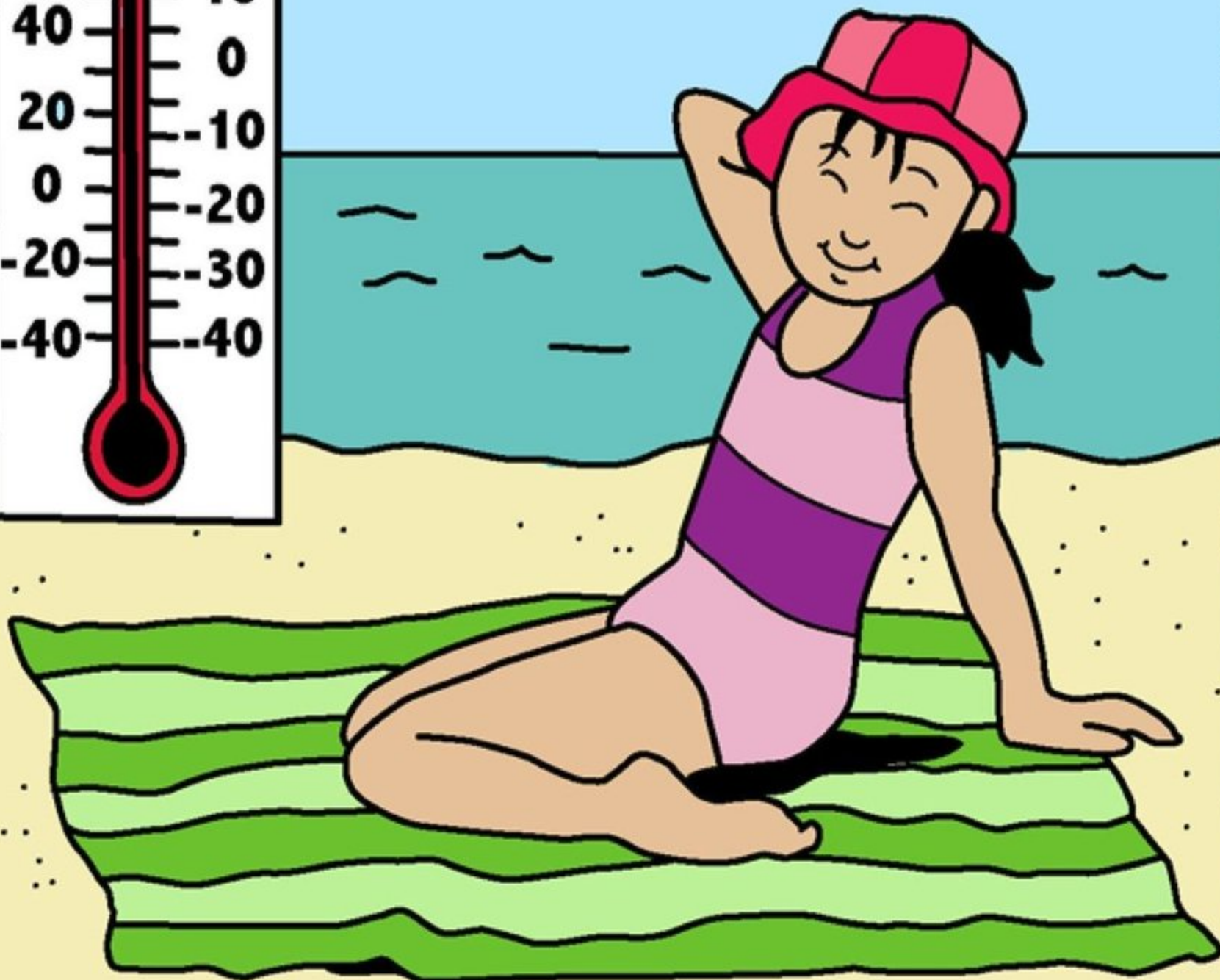
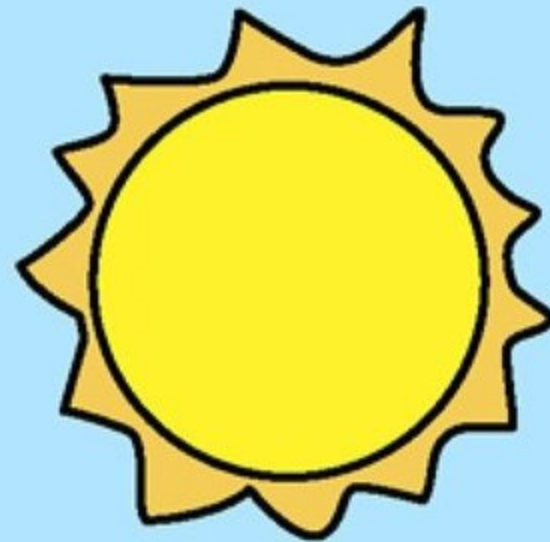


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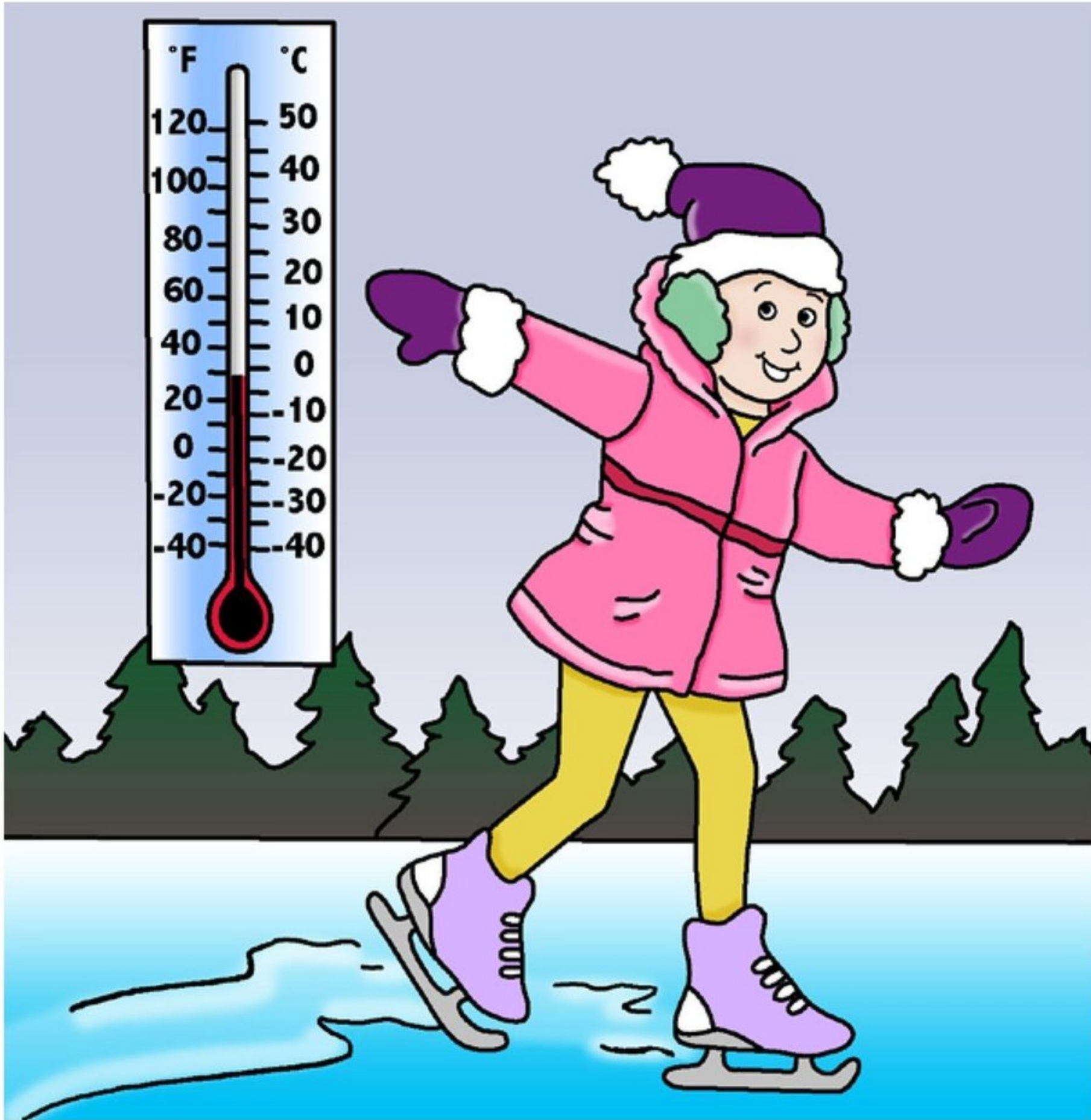
# How We Measure



Written by Dori Butler • Illustrated by David Schimmell



# How We Measure



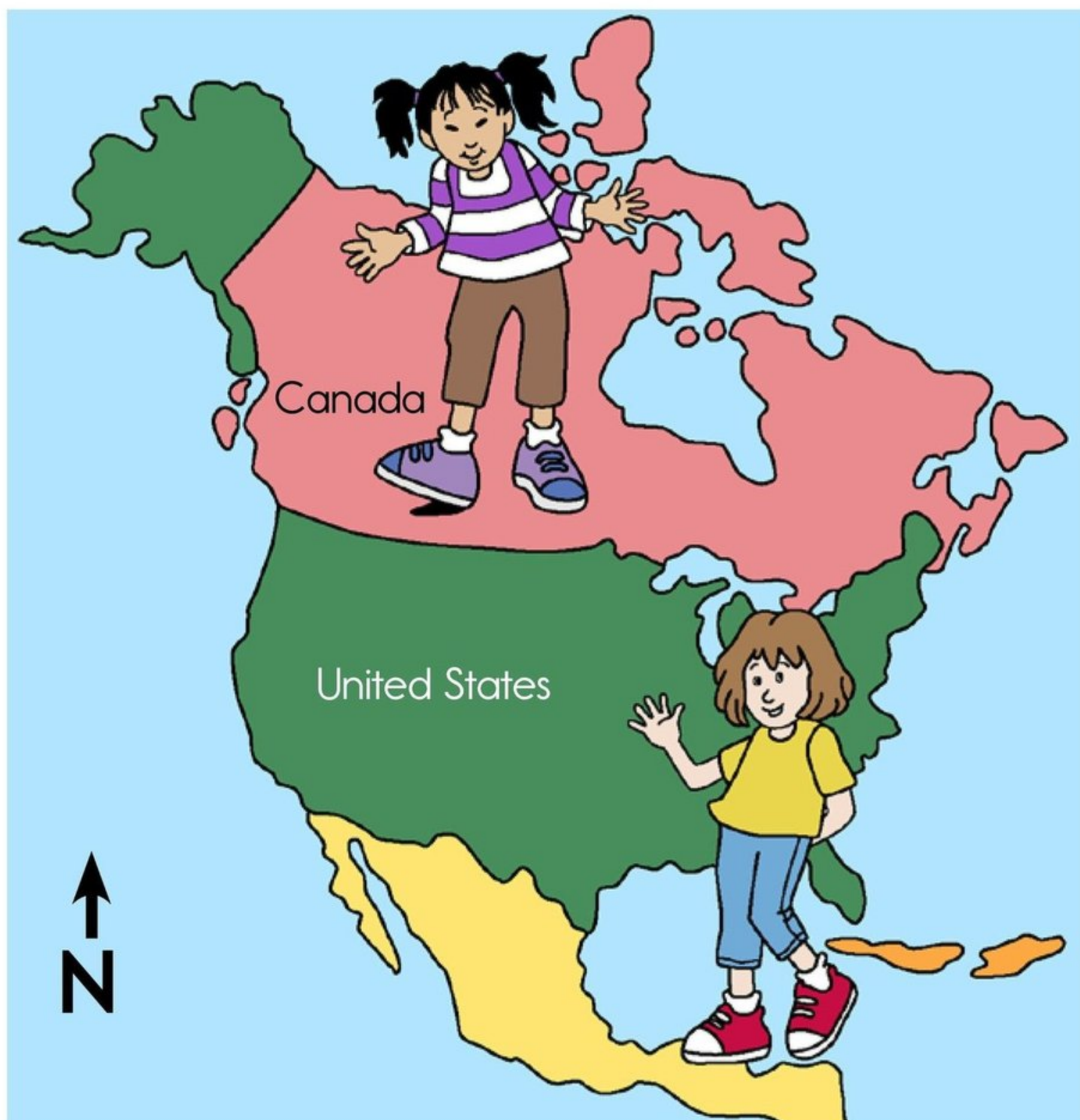
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## Introduction

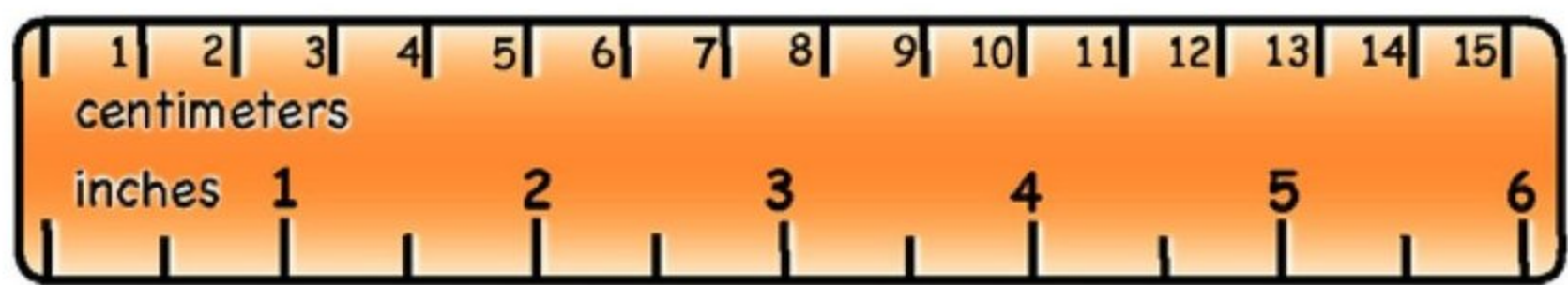
Lisa and Magda are pen pals.  
Lisa lives in the United States,  
and Magda lives in Canada.

A lot of things are the same in  
the United States and Canada.  
But many things are different.

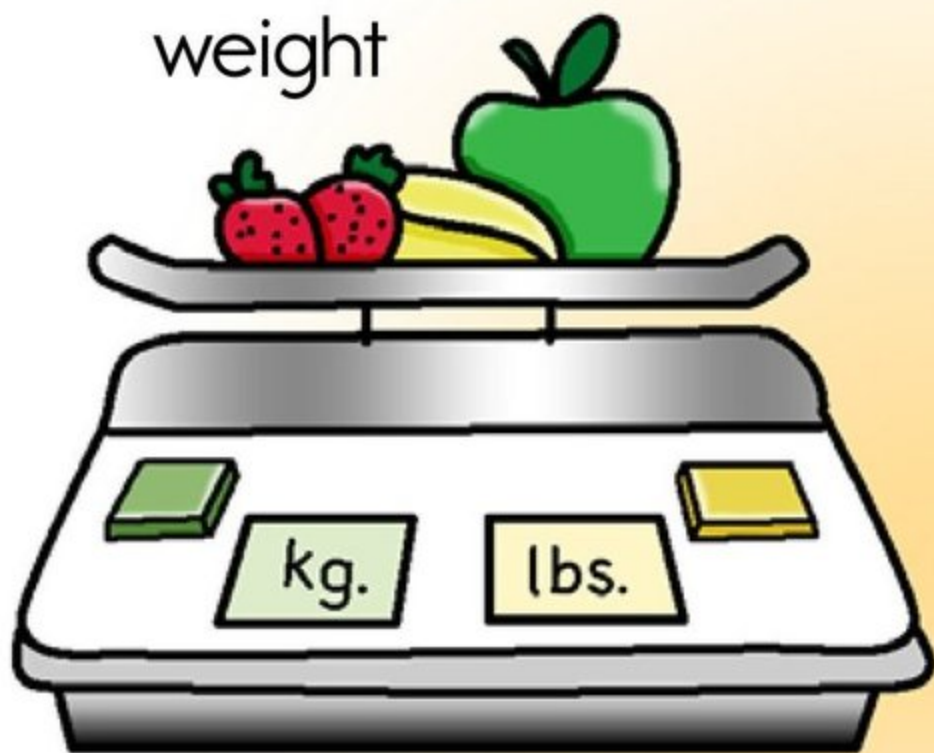


One difference is the **system** people use to **measure** things. Canada uses the **metric** system to measure things. The United States uses the **English** system.

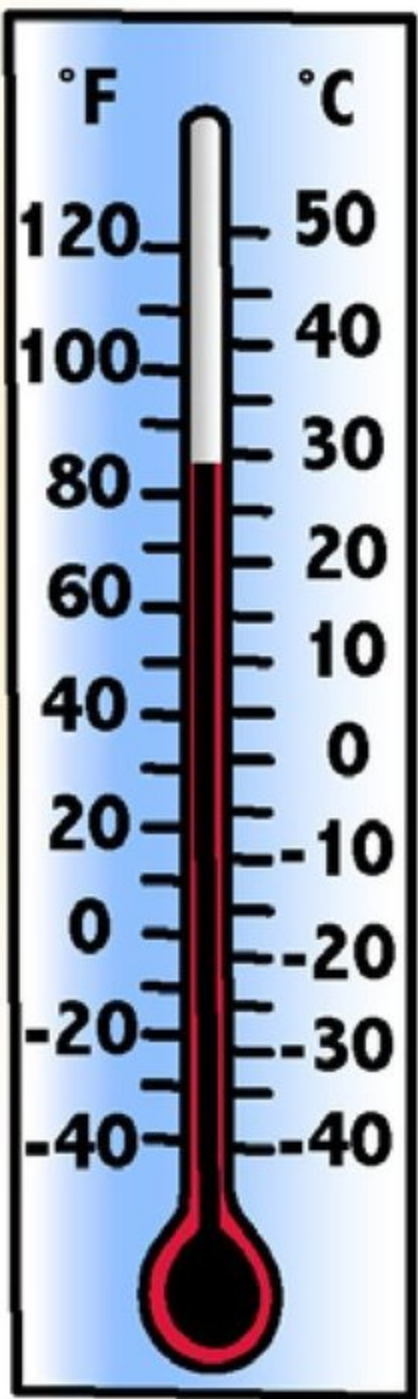
length



weight

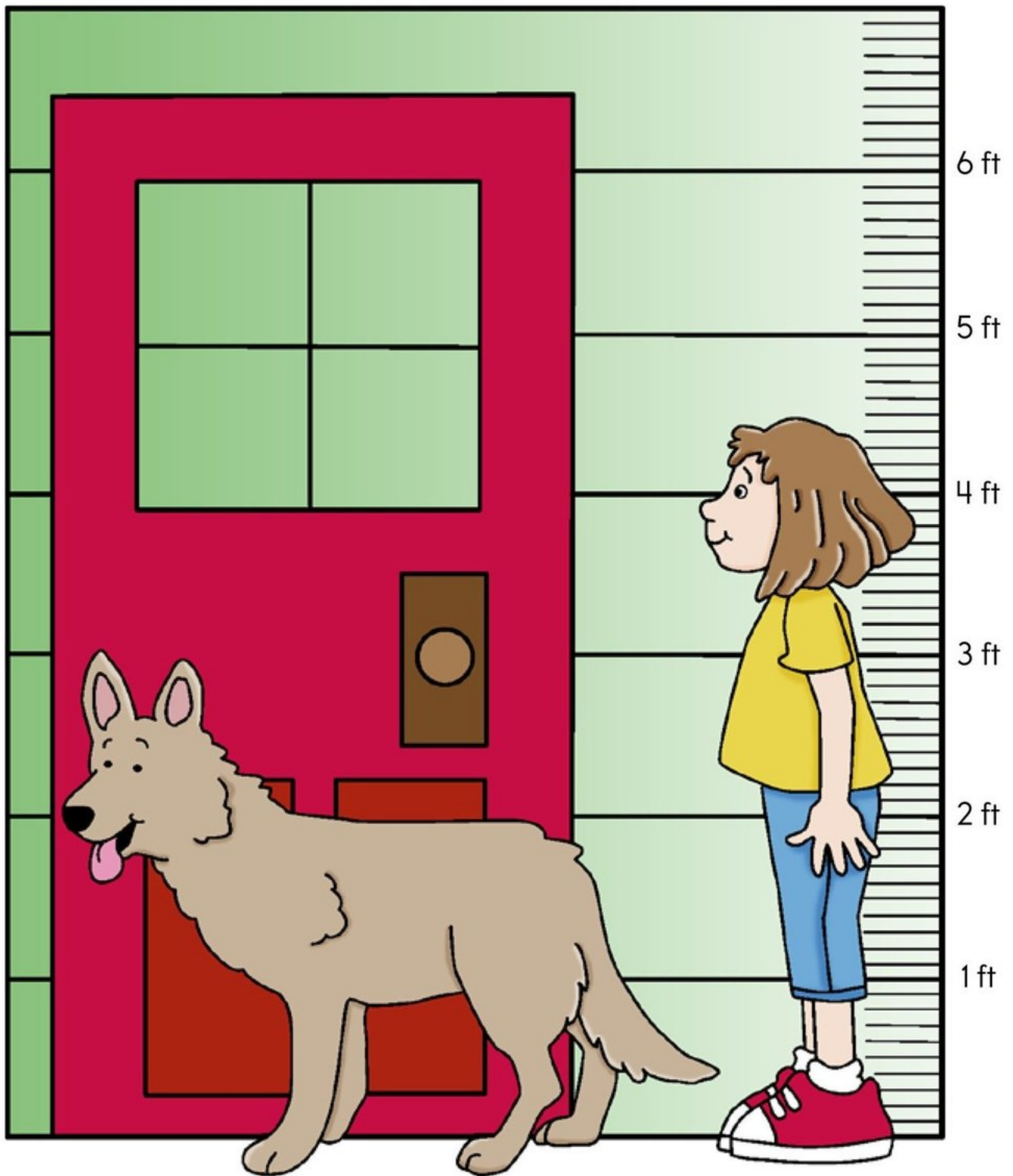


temperature



volume

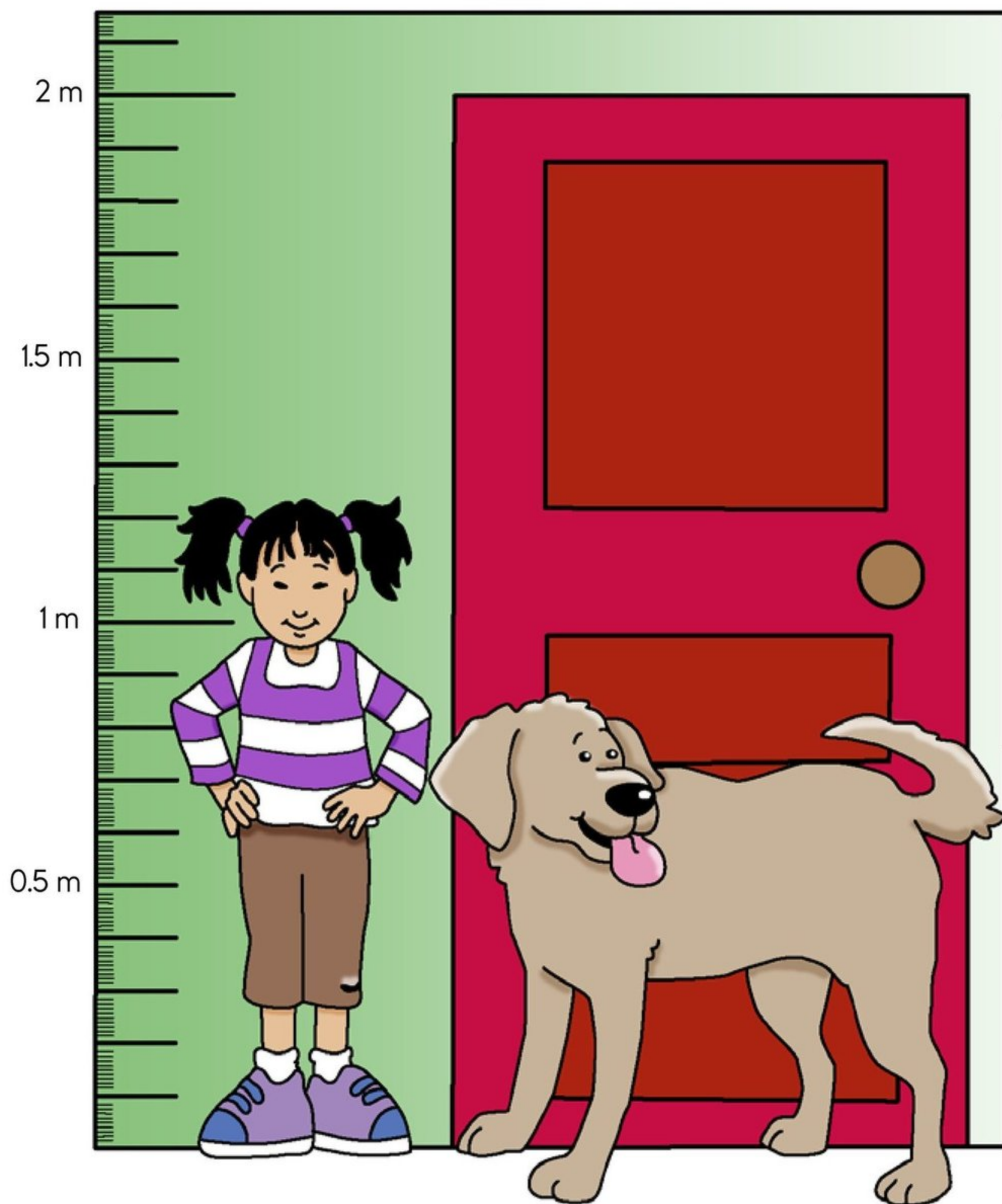




## How Tall Are You?

Lisa measures her **height** in feet and inches. There are 12 inches in one foot. Lisa is 4 feet, 5 inches tall.





Magda measures how tall she is in meters. There are 3.28 feet in one meter. Magda is 1.23 meters tall (or 123 centimeters tall).



# How Much Do You Weigh?

Lisa measures how much she **weighs** in pounds and ounces.  
There are 16 ounces in one pound.  
Lisa weighs 75 pounds, 2 ounces.

1 bag peanuts = 1 pound



3 ketchup packets = 1 ounce





2 chocolate bars = 90g = 0.2 pounds



+

2 bags peanuts = 908 g  
= 2 pounds

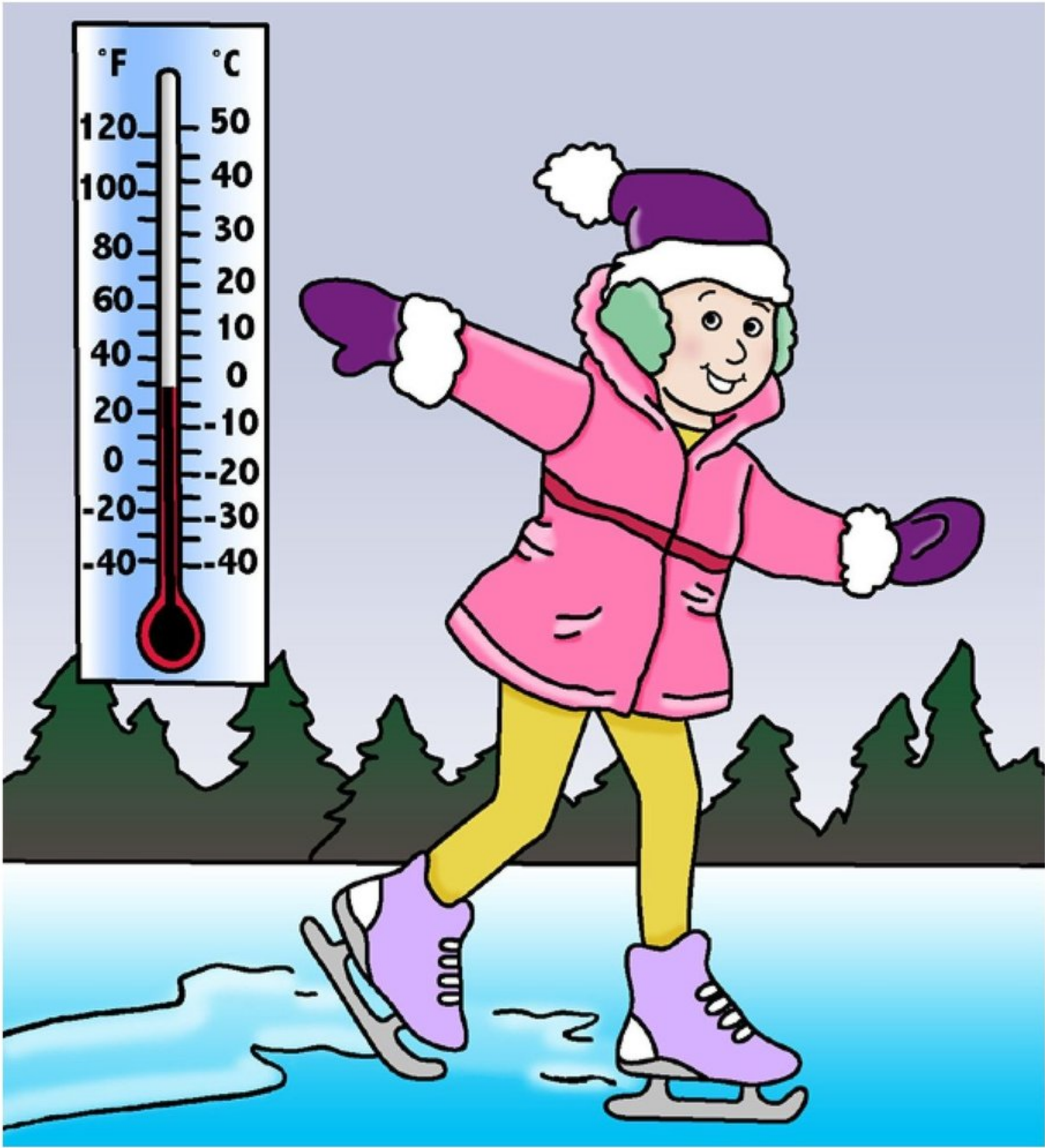


= 1 kilogram = 2.2 pounds



Magda measures how much she weighs in kilograms. There are 2.2 pounds in one kilogram. Magda weighs 26 kilograms.





## What Is the Temperature?

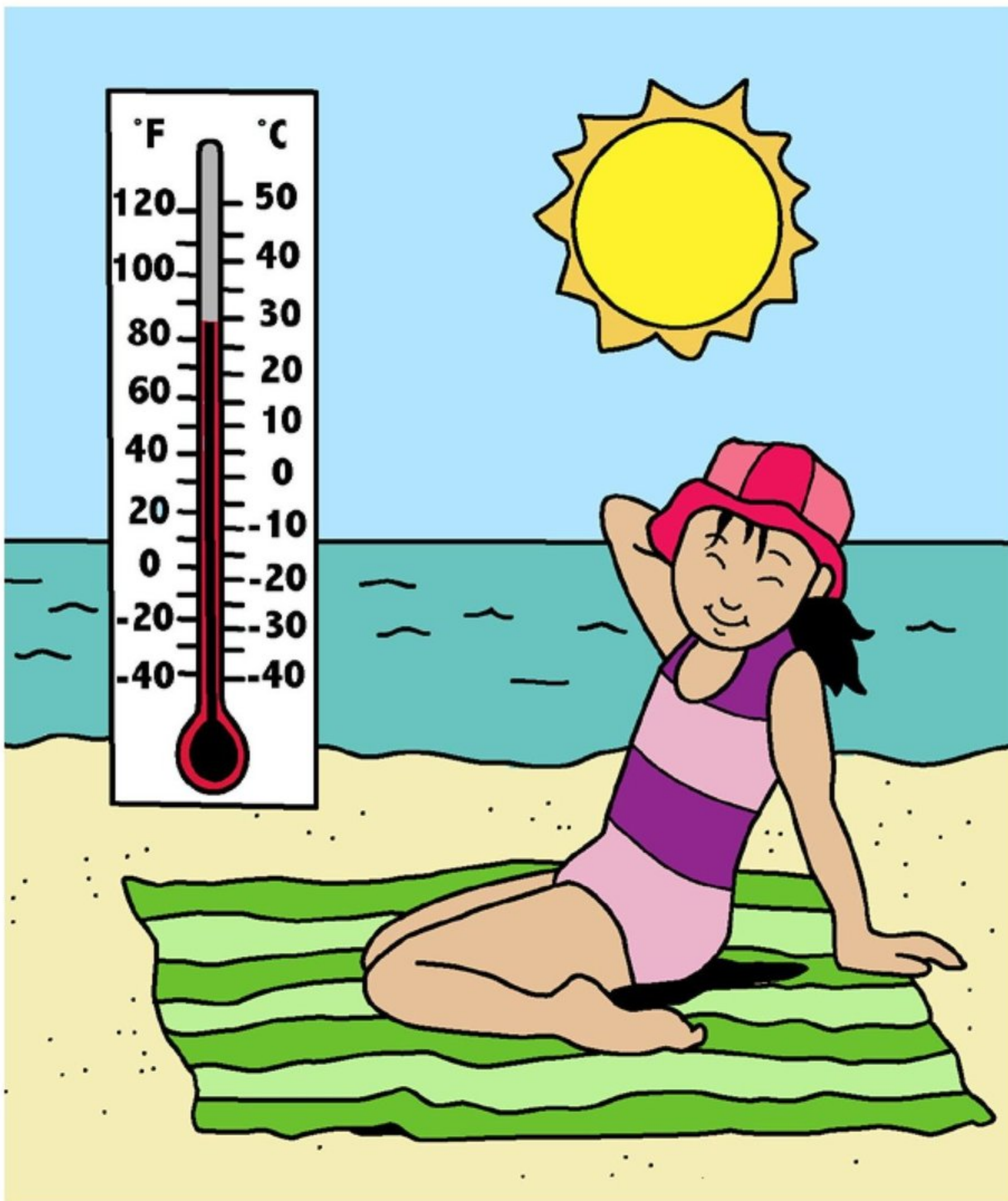
Lisa measures the **temperature** in degrees Fahrenheit.

When it is 28 degrees Fahrenheit outside, Lisa wears her heavy coat and goes ice-skating. It's winter!



Magda measures the temperature in degrees Celsius.

When it is 28 degrees Celsius outside, Magda wears her bathing suit and goes to the beach. It's summer!





# Making Cookies

When Lisa makes cookies, she measures the flour, butter, and sugar in cups.

She measures the baking soda, salt, and vanilla in teaspoons.







Magda measures the flour, butter, and sugar in grams.

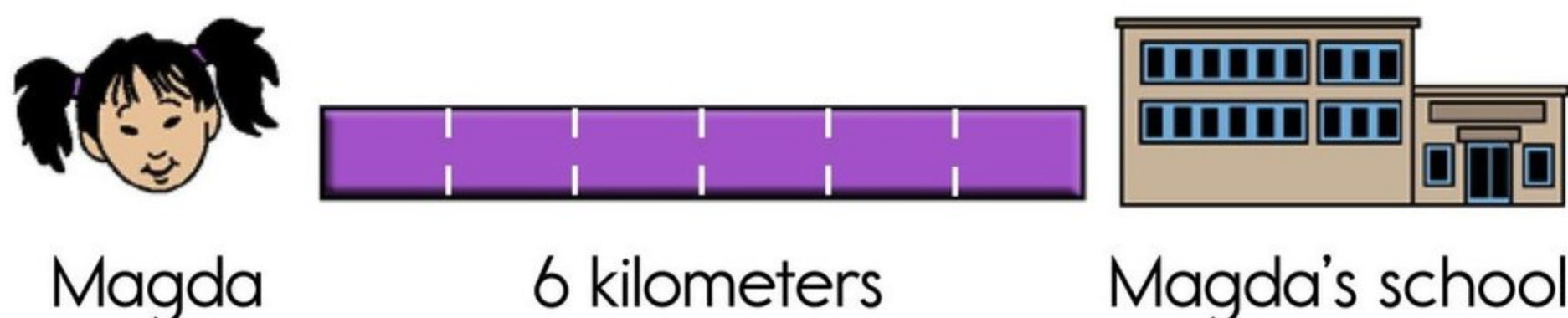
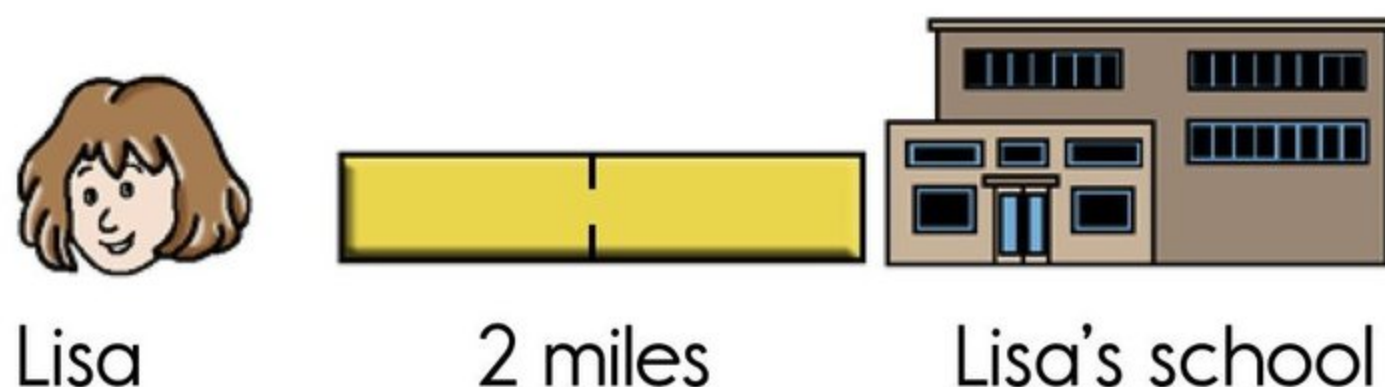
She measures the baking soda, salt, and vanilla in milliliters.



# How Far Is It to School?

Lisa lives 2 miles from her school.  
 Magda lives 6 kilometers from her school. There are 0.62 miles in one kilometer.

Who lives closer to her school,  
 Lisa or Magda?



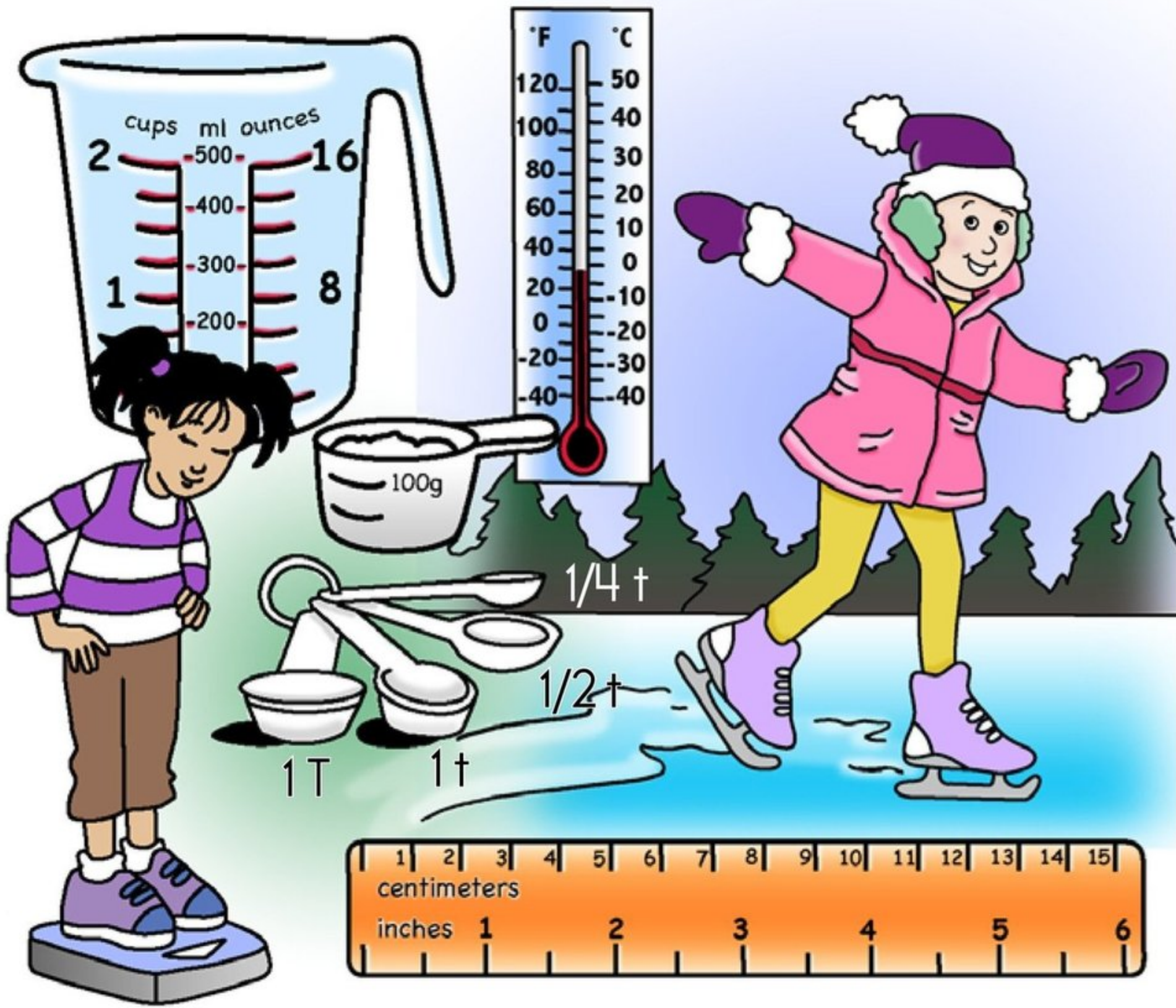
Math Minute

0.62 miles = 1 kilometer,

\_\_\_\_\_ miles = 6 kilometers

$9 = 3 + 5 + 2 = 10 + 8 + 10 \div 2 = 14 \times 2 - 3$ 
 $25 - 5 - 5 + 2 = 17 + 3$ 
 $2 - 20 \div 2 - 7 = 3 + 5 + 2 = 10 + 8 + 10 \div 2$ 
 $2 = 14 \times 2 - 6 = 22 - 19$





## Conclusion

Lisa uses the English system to measure things. Magda uses the metric system.

Both girls can measure height, weight, temperature, cookie ingredients, and **distance**. They just do it differently.



# Glossary

<b>distance</b>	the amount of space between things or places (p. 15)
<b>English</b>	from England (p. 5)
<b>height</b>	how high the top of something is from the ground (p. 6)
<b>measure</b>	to find the number that tells the size of something (p. 5)
<b>metric</b>	the system that measures things in groups of ten (p. 5)
<b>system</b>	a group of things or ideas that work together (p. 5)
<b>temperature</b>	how hot or cold something or someplace is (p. 10)
<b>weights</b>	having a certain amount of heaviness (p. 8)

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Level L Leveled Book  
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Illustrated by David Schimmell

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