

# Convert Measurement Units

Lesson 4-6

**Name:** \_\_\_\_\_  
Type your name


**Date:** \_\_\_\_\_  
Today's date

**Class:** \_\_\_\_\_  
Class period

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# Key Vocabulary Level 2 Standard

Picture first, then the word, then a plain-language meaning. Say each word out loud.



**units of length**

*1 foot = 12 inches, so the factor is 12*


**Conversion Factor**

Write the definition:

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**units of length**

*Inches, feet, pounds, ounces*


**Unit**

Write the definition:

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**3/4**

*2 feet = 24 inches*


**Equivalent**

Write the definition:

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**3 : 2**

*12 inches per 1 foot*

**Ratio**

Write the definition:

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**units of length**

*12 inches = 1 foot, 3 feet = 1 yard, 16 ounces = 1  
pound*

### **Customary units**

**Write the definition:**

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**units of length**

*1 meter = 100 centimeters, 1 kilogram = 1,000  
grams*

### **Metric units**

**Write the definition:**

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## Guided Notes Level 2 Standard



### WHAT WE'RE LEARNING TODAY

I can convert measurement units using ratios and conversion factors.



Fill in each blank as we go. Use the Word Bank to help you.



### WORD BANK – FILL EACH BLANK WITH THE BEST WORD

Conversion Factor

Unit

Equivalent

Ratio

Customary units

Metric units



Tap any word to see what it means and a picture.

1 A ratio equal to 1 that relates two units, like 12 inches / 1 foot, is a

2 A standard amount used to measure, like a foot or a gram, is a

3 Two measurements that name the same amount, like 1 foot and 12 inches, are

4 A comparison of two quantities is a .

5 Units like inches, feet, and pounds used mainly in the U.S. are

6 Units like meters, grams, and liters based on tens are .



### Watch & Try – Worked Examples

See the notes in action: watch one worked all the way through, then try the next with the same steps.


 **I do – watch**


Follow each step as your teacher solves it.

**Problem:** How many inches are in 7 feet?

- A. 84 inches
- B. 72 inches
- C. 70 inches
- D. 96 inches

**Step 1**  $7 \times 12 = 84$  inches.

 **Answer:** A. 84 inches

 **We do – together**

Solve this one with your class using the same steps.

**Problem:** How many feet are in 3 yards?

- A. 9 feet
- B. 6 feet
- C. 12 feet
- D. 36 feet

**Step 1** \_\_\_\_\_

**Step 2** \_\_\_\_\_

**Answer:** \_\_\_\_\_



**You do — your turn**

Now try one on your own. Show every step.

**Problem:** How many ounces are in 4 pounds?

- A. 64 ounces
- B. 48 ounces
- C. 32 ounces
- D. 16 ounces

Show your work:

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## Try It

Solve on your own. Check the answer key when you are done.

**1. Leg 3: The coin box weighs 5 pounds, but the shipping label needs the weight in ounces. How many ounces is that? (1 lb = 16 oz)**

- A. 80 ounces
- B. 21 ounces
- C. 75 ounces
- D. 16 ounces

Show your work:

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**2. Final Leg: The finished cabinet ships in a crate holding 8 quarts of packing gel, but the supplier sells gel by the gallon. How many gallons is that? (4 qt = 1 gal)**

- A. 2 gallons
- B. 32 gallons
- C. 4 gallons
- D. 12 gallons

Show your work:

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## Stretch Your Thinking

Level 2 enrichment

Challenge task — explain your reasoning in full sentences.

**A recipe says you need 5 feet of ribbon, but the store only sells ribbon in inches. Another recipe says you need 2 yards of fabric, but your ruler measures in feet. Convert both measurements and explain the steps you used. Which conversion factor did you use each time?**

*Sentence starter: 5 feet = \_\_\_ inches because \_\_\_. 2 yards = \_\_\_ feet because \_\_\_. The conversion factors I used were \_\_\_.*

Show your work:

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## Reflect — Exit Ticket

**Which is the correct conversion of 5 yards to inches?**

- A. 180 inches
- B. 60 inches
- C. 15 inches
- D. 540 inches

Your answer:

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