Convert Measurement Units — Homework

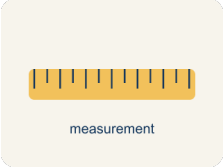
Lesson 3-10 • Standard 6.AT.3c

Name: _____ **Period:** _____ **Date:** _____

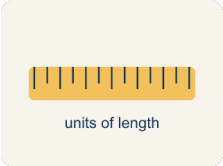
Today's Goals

Content: I can convert measurement units using ratios and conversion factors.
Language: I can explain my conversion using the words conversion factor, unit, equivalent, and ratio.

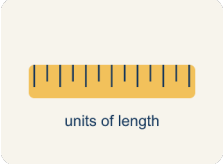
Key Words



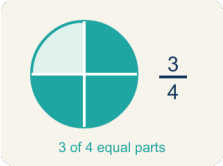
Convert Measurement Units (Convertir unidades de medida) — Rename a measurement in a different unit without changing its amount.



Conversion Factor (Factor de conversión) — A ratio that helps you change one unit into another.



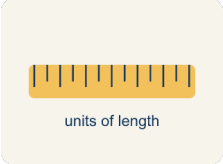
Unit (Unidad) — A standard amount used to measure, like an inch or a liter.



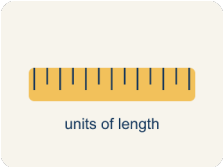
Equivalent (Equivalente) — Having the same value, just in different units.



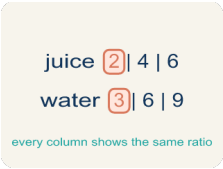
Ratio (Razón) — A way to compare two amounts, like 3 to 2.



Customary units (Unidades usuales (sistema inglés)) — The U.S. way of measuring, like inches, feet, and pounds.



Metric units (Unidades métricas) — A way of measuring by 10s, like meters, liters, and grams.



Ratio table (Tabla de razones) — A table of equal ratios that shows a pattern.

Practice

Show your work. Use the blank space under each problem.

1. How many inches are in 7 feet?

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

---

2. How many feet are in 3 yards?

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

---

3. Match each item on the left to its answer on the right.

Item	Answer choices
____ 3 yards	F. 48 ounces
____ 4 feet	E. 3 feet
____ 5 pounds	D. 72 inches
____ 2 yards	C. 80 ounces
____ 36 inches	B. 48 inches
____ 3 pounds	A. 9 feet

---

4. A shelf is 30 inches long. How many feet and inches is that?

A. 1 foot 18 inches
B. 2 feet 6 inches
C. 2 feet 8 inches
D. 3 feet 0 inches

---

5. An arcade cabinet has parts measured in different units. Convert each to the target unit.

Part	Measurement	Target Unit	Converted
Power cord	2 yards	inches	
Top panel	54 inches	feet	
Weight	96 ounces	pounds	
Side rail	5 feet	inches	

---

6. When converting, do you multiply or divide? Sort each conversion by the correct operation.

Groups: Multiply | Divide

- Feet → inches → _____
- Yards → feet → _____
- Pounds → ounces → _____
- Inches → feet → _____
- Ounces → pounds → _____
- Feet → yards → _____

---

7. Spot the Common Mistake

Step 1 (Convert 80 ounces of bolts to pounds): 80 ounces → pounds
Step 2 (Use the conversion factor): 1 pound = 16 ounces
Step 3 (Operate): 80 × 16 = 1,280 pounds
Step 4 (Final answer): 80 ounces = 1,280 pounds

Which step has the mistake? Explain and fix it:

---

8. Leg 1: The joystick rod is 3 feet long, but the parts catalog lists it in inches. How many inches is that? (1 ft = 12 in)

A. 15 inches
B. 30 inches
C. 33 inches
D. 36 inches

---

9. Leg 2: A power cable on the cabinet plan measures 2.5 kilometers across the whole arcade network. How many meters is that? (1 km = 1,000 m)

A. 25 meters
B. 250 meters
C. 2,500 meters
D. 25,000 meters

---

10. 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. 16 ounces
B. 21 ounces
C. 75 ounces
D. 80 ounces
