Name_____ Date_____ Period_____

LESSON 3-6 · SESSION 1 · PRACTICE · FORM B

Customary Unit Conversions

Learning target – I can convert between customary units by multiplying or dividing by the conversion rate. · 6.RP.A.3d

REMEMBER

- Converting changes the **unit**, not the amount. Write the unit fact first.
- Big unit to small unit: **multiply** (5 ft × 12 = 60 in). Small unit to big unit: **divide** (12 qt ÷ 4 = 3 gal).
- Facts: 1 ft = 12 in · 1 yd = 3 ft · 1 lb = 16 oz · 1 gal = 4 qt · 1 qt = 2 pt · 1 pt = 2 cups

WORKED EXAMPLE

A pitcher holds 2 quarts. How many fluid ounces? (1 qt = 4 cups, 1 cup = 8 fl oz)

Step 1 Quarts to cups: 2 × 4 = 8 cups.

Step 2 Cups to fl oz: 8 × 8 = 64 fl oz.

Step 3 Check: 64 ÷ 8 ÷ 4 = 2 quarts.

Answer **2 quarts = 64 fluid ounces**

WORDS **customary units** *(unidades usuales)* · **convert** *(convertir)* · **conversion factor** *(factor de conversión)*

PRACTICE

show your work · label units

1. Convert each measure.

a. 5 ft = ___ in

b. 7 yd = ___ ft

c. 3.5 lb = ___ oz

d. 28 qt = ___ gal

e. 40 oz = ___ lb

f. 6 gal = ___ qt

2. **Roller Coaster.** Riders must be at least 54 inches tall. Priya is 5 feet tall. Complete the table. Is Priya tall enough?

Hint *Each foot adds 12 inches.*

Feet	1	2	4	5
Inches	12	24	48	

Tall enough?_____

3. **Party Punch.** A punch bowl holds 4 gallons. (1 gal = 4 qt, 1 qt = 4 cups)

a. Quarts: _____ qt

b. Cups: _____ cups

Show your work.

4. **Gym Rope.** A climbing rope is 6 yards long. (1 yd = 3 ft, 1 ft = 12 in)

a. Feet: _____ ft

b. Inches: _____ in

Show your work.

5. Road Race. A road race is 1.5 miles long. How many feet is the race? (1 mile = 5,280 feet)

Hint *Miles to feet is big to small: multiply by 5,280.*

Show your work.

Answer_____ feet

6. Water Cooler. A cooler holds 7 gallons of water. How many 1-pint cups can it fill? (1 gal = 4 qt, 1 qt = 2 pt)

Hint *Change gallons to quarts first, then quarts to pints.*

Show your work.

Answer_____ cups

7. Milk Cartons. The cafeteria has 36 quarts of milk. How many gallons is that? (4 qt = 1 gal)

Hint *Quarts to gallons is small to big: divide.*

Show your work.

Answer_____ gallons

8. Garden Fence. A garden needs 30 feet of fencing. Fencing is sold by the yard at $8 per yard. (1 yd = 3 ft)

a. Yards needed: _____ yd

b. Total cost: _____

c. Would buying by the foot at $2.90 per foot cost more? How much? _____

Show your work.

FIND THE ERROR

explain the mistake, then fix it

9. Maya's Work. Maya converted 84 inches to feet by multiplying: 84 × 12 = 1,008 feet. Explain why 1,008 feet is impossible. Then find the correct answer.

_____

_____

_____

TEST PRACTICE

choose the best answer

10. 4 feet equals how many inches?

A 16 **B** 40 **C** 48 **D** 3

11. 64 ounces equals how many pounds?

A 4 **B** 1,024 **C** 48 **D** 8

SELF-CHECK CODE *find your answer · copy its letter into that problem's box · spell a math word*

144 Z	9 S	56 D	60 P	3,520 Q	14 X	7,920 N	216 U	64 O

#1a	#3b	#4b	#5	#6	#7

CHECK YOURSELF	☐ I can do this on my own	☐ I need a little help	☐ I have a question about #___