Name_____ Date_____ Period_____

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

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. 4 ft = ___ in

b. 5 yd = ___ ft

c. 4.5 lb = ___ oz

d. 20 qt = ___ gal

e. 56 oz = ___ lb

f. 3 gal = ___ qt

2. **Roller Coaster.** Riders must be at least 48 inches tall. Caleb is 4 feet tall. Complete the table. Is Caleb tall enough?

Hint *Each foot adds 12 inches.*

Feet	1	2	3	4
Inches	12	24	36	

Tall enough?_____

3. **Party Punch.** A punch bowl holds 2 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 8 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 2.5 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 9 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 24 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 24 feet of fencing. Fencing is sold by the yard at $9 per yard. (1 yd = 3 ft)

a. Yards needed: _____ yd

b. Total cost: _____

c. Would buying by the foot at $3.25 per foot cost more? How much? _____

Show your work.

FIND THE ERROR

explain the mistake, then fix it

9. Sam's Work. Sam converted 60 inches to feet by multiplying: 60 × 12 = 720 feet. Explain why 720 feet is impossible. Then find the correct answer.

_____

_____

_____

TEST PRACTICE

choose the best answer

10. 5 feet equals how many inches?

A 17 **B** 50 **C** 60 **D** 72

11. 48 ounces equals how many pounds?

A 768 **B** 32 **C** 4 **D** 3

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

13,200 H	6 S	32 N	18 X	2,112 Q	48 I	72 E	96 Z	288 C

#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 #___