

Additional Practice 13-2

Equivalence with Customary Units of Capacity

Another Look!

Lance has an 8-gallon aquarium. How many 2-quart containers will it take to fill the aquarium?

DATA

Customary Units of Capacity

- 1 pint (pt) = 2 cups (c)
- 1 quart (qt) = 2 pt = 4 c
- 1 gallon (gal) = 4 qt = 8 pt

Step 1

Convert 8 gallons to quarts.

Gallons	Quarts
2	8
4	16
6	24
8	32

8 gallons = 32 quarts



Use the correct units as you solve measurement problems.

Step 2

Divide 32 quarts by 2.

$$\begin{array}{r} 16 \\ 2 \overline{)32} \\ \underline{-2} \\ 12 \\ \underline{-12} \\ 0 \end{array}$$

It takes 16 of the 2-quart containers to fill the aquarium.

In 1–3, write $>$ or $<$ in each \bigcirc to compare the measures.

1. 5 quarts \bigcirc 5 cups 2. 5 cups \bigcirc 3 pints 3. 18 pints \bigcirc 2 gallons

For 4–7, convert each unit.

4. 9 pints = _____ cups 5. 16 quarts = _____ cups
 6. 2 gallons = _____ pints 7. $\frac{1}{2}$ gallon = _____ cups

For 8–9, complete each table.

8.

Quarts	Pints
1	
2	
3	
4	

9.

Gallons	Pints
$\frac{1}{2}$	
1	
2	
3	

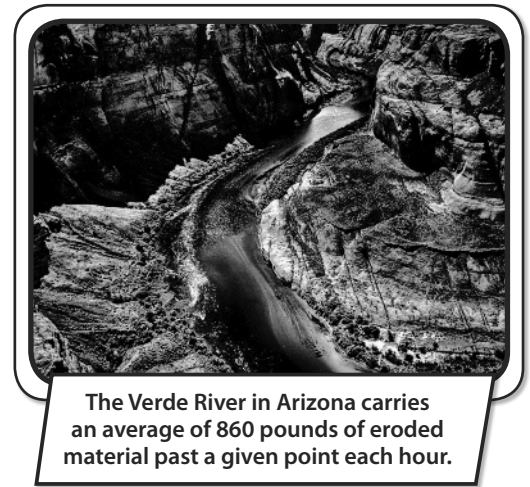


10. Make Sense and Persevere Edgar has a birdbath that holds 3 quarts of water. He only wants to fill it $\frac{3}{4}$ full. How many 1-pint containers does it take to fill the birdbath? How could he fill it with pint and cup containers? Explain.

11. How many minutes are in 3 hours? There are 60 minutes in one hour. Complete the table.

Hours	Minutes
1	
2	
3	


12. enVision® STEM How many pounds of eroded material does the Verde River carry past a given point in $\frac{1}{4}$ of a day? There are 24 hours in a day. Explain.



13. A car with a 20-gallon gas tank can go 25 miles on 1 gallon of gas. If the tank is full at the beginning of a 725-mile trip, how many times does the driver have to refill the gas tank?

14. Higher Order Thinking Janice needs 3 gallons of lemonade for a party. She has 4 quarts, 6 pints, and 4 cups of lemonade already made. How many more cups of lemonade does Janice need?

Assessment Practice

15. Which equals 6 pints?  4.MD.1.1

- (A) 6 cups
- (B) 24 cups
- (C) 2 gallons
- (D) 3 quarts

16. Select all the comparisons that are true.  4.MD.1.1

- 4 cups $<$ 4 pints
- 9 pints $>$ 9 quarts
- 3 gallons $<$ 16 quarts
- 5 quarts $<$ 24 cups
- 2 gallons $<$ 20 cups