



Math Virtual Learning

# 4th Grade Measurements

Customary: Capacity

April 8, 2020



4th Grade Math  
Lesson: April 8, 2020

**Learning Target:**

Students will convert capacity measurements from larger units to smaller units using the customary system.

## Background:

- Students learn to convert from gallons to quarts
- Students learn to convert from quarts to pints
- Students learn to choose best unit of measurement for a variety of objects

## Let's Get Started:

Watch Videos:

1. [Gallons to Quarts, Quarts to Pints](#)
2. [BrainPop Jr.: Capacity](#)

Remember!

1 gallon = 4  
quarts

1 quart = 2 pints

## Practice #1:

### Gallons to Quarts and Quarts to Pints

Remember!

Gallon = gal  
Quart = qt  
Pint = pt

3 gallons = \_\_\_\_\_ quarts

1. There are 4 quarts in one gallon.
2. You need to find 3 sets of 4 quarts. In order to solve for the number of total quarts, you would need to multiply the number of gallons by 4.
3.  $3 \times 4 = 12$

3 gallons = 12 quarts

5 quarts = \_\_\_\_\_ pints

1. There are 2 pints in one quart.
2. You need to find 5 sets of 2 pints. In order to solve for the number of total pints, you would need to multiply the number of quarts by 2.
3.  $5 \times 2 = 10$

5 quarts = 10 pints

Remember!

1 gallon = 4  
quarts

1 quart = 2 pints

## Practice #2:

### Gallons to Quarts and Quarts to Pints

Remember!

Gallon = gal  
Quart = qt  
Pint = pt

1. 2 Gallons = \_\_\_\_\_ Quarts

2. 12 Quarts = \_\_\_\_\_ Pints

3. 9 Gallons = \_\_\_\_\_ Quarts

4. 6 Quarts = \_\_\_\_\_ Pints

5. 10 gal = \_\_\_\_\_ qt.

6. 25 qt = \_\_\_\_\_ pt.

Remember!

1 gallon = 4  
quarts

1 quart = 2 pints

## Practice #3: Gallons, Quarts, or Pints?

Remember!

Gallon = gal  
Quart = qt  
Pint = pt

Which unit would be best in order to measure the following?  
Gallons, quarts, or pints?

1. Amount of water in a pool? \_\_\_\_\_
2. Amount of water in a water bottle? \_\_\_\_\_
3. Amount of gasoline in a car? \_\_\_\_\_
4. Amount of water in a bathtub? \_\_\_\_\_
5. Amount of ice cream in one small tub? \_\_\_\_\_

# MORE Practice on your own:

## Go to this website: [Quia](https://www.quia.com/)

This game will help you practice capacity measurement and conversions.

1. Click on the icon on the top right of this page.
2. If you are playing by yourself, click the X next to Second Player's name.
3. Just like Jeopardy, there are categories across the top and point values listed below them.
4. The higher the point value, the more challenging the question or conversion!
5. Enjoy and learn!

CUPS IN _____	PINTS IN _____	QUARTS IN _____	IN GALLONS	GRAB BAG
100	100	100	100	100
200	200	200	200	200
300	300	300	300	300
400	400	400	400	400
500	500	500	500	500

# MORE Practice on your own: Go to this website: [Matching Best Fits](#)

MATH REVIEW:

**CAPACITY:** • ONE QUART = 92 FLUID OUNCES  
• ONE GALLON = 4 QUARTS

**WEIGHT:** • ONE POUND = 16 OUNCES  
• ONE TON = 2,000 POUNDS

**LENGTH:** • ONE FOOT = 12 INCHES  
• ONE YARD = 3 FEET

RELAXED MODE

TIMED MODE

copyright 2014 sheppard software

This game will help you convert length, weight and capacity measurements.

1. Click on the icon on the top right of this page.
2. Choose Relaxed or Timed Mode
3. Select the matching pairs of measurements.
4. The more levels you go up, the more challenging the matches become!
5. Enjoy and learn!

FIND THE BEST ESTIMATE - LENGTH.

CITY BLOCK	100 YARDS
MAN'S THUMB	BIKE
6 FEET	3 INCHES

LEVEL: 2

SCORE: 1700

CORRECT PAIRS: 5

MISSES: 0



# MORE Practice on your own:

Go to this website: [Measurement Hangman](#)

This is a review game that includes length, capacity, weight, and even time conversions.

1. Click on the icon on the top right of this page.
2. Using letter clues, try to figure out the hint's conversion.
3. Enjoy and learn!

The screenshot shows the game interface with a dark blue background. In the top left corner, it says "1 out of 20". On the right side, there is a simple line drawing of a gallows. Below the gallows, a dashed line indicates the length of the word to be guessed. Underneath the dashed line, the text "Hint: 1 cup" is displayed. At the bottom of the screen, there is a white input box, an orange button labeled "Guess the answer", and a keyboard layout with letters A through Z and numbers 0 through 9 on blue buttons.

# Practice:

## Complete this page in your packet.

### Customary Capacity Conversions

Convert Gallons (gal) to Quarts (qt)

1) 1 Gallon = \_\_\_\_\_ qts

6) 12 Gallons = \_\_\_\_\_ qts

2) 9 Gallons = \_\_\_\_\_ qts

7) 5 Gallons = \_\_\_\_\_ qts

3) 10 Gallons = \_\_\_\_\_ qts

8) 2 Gallons = \_\_\_\_\_ qts

4) 4 Gallons = \_\_\_\_\_ qts

9) 20 Gallons = \_\_\_\_\_ qts

5) 13 Gallons = \_\_\_\_\_ qts

10) 7 Gallons = \_\_\_\_\_ qts

11a) Adam's goal is to drink one and a half gallons of water a day. How many quarts does he need to drink? \_\_\_\_\_

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Click here to open worksheet.



## Self Check:

Go tell someone in your home your answers.



1. Was this lesson?

- easy,
- just right
- hard

2. At home, see if you can find an object that is measured in gallons, one in quarts, and another in pints.