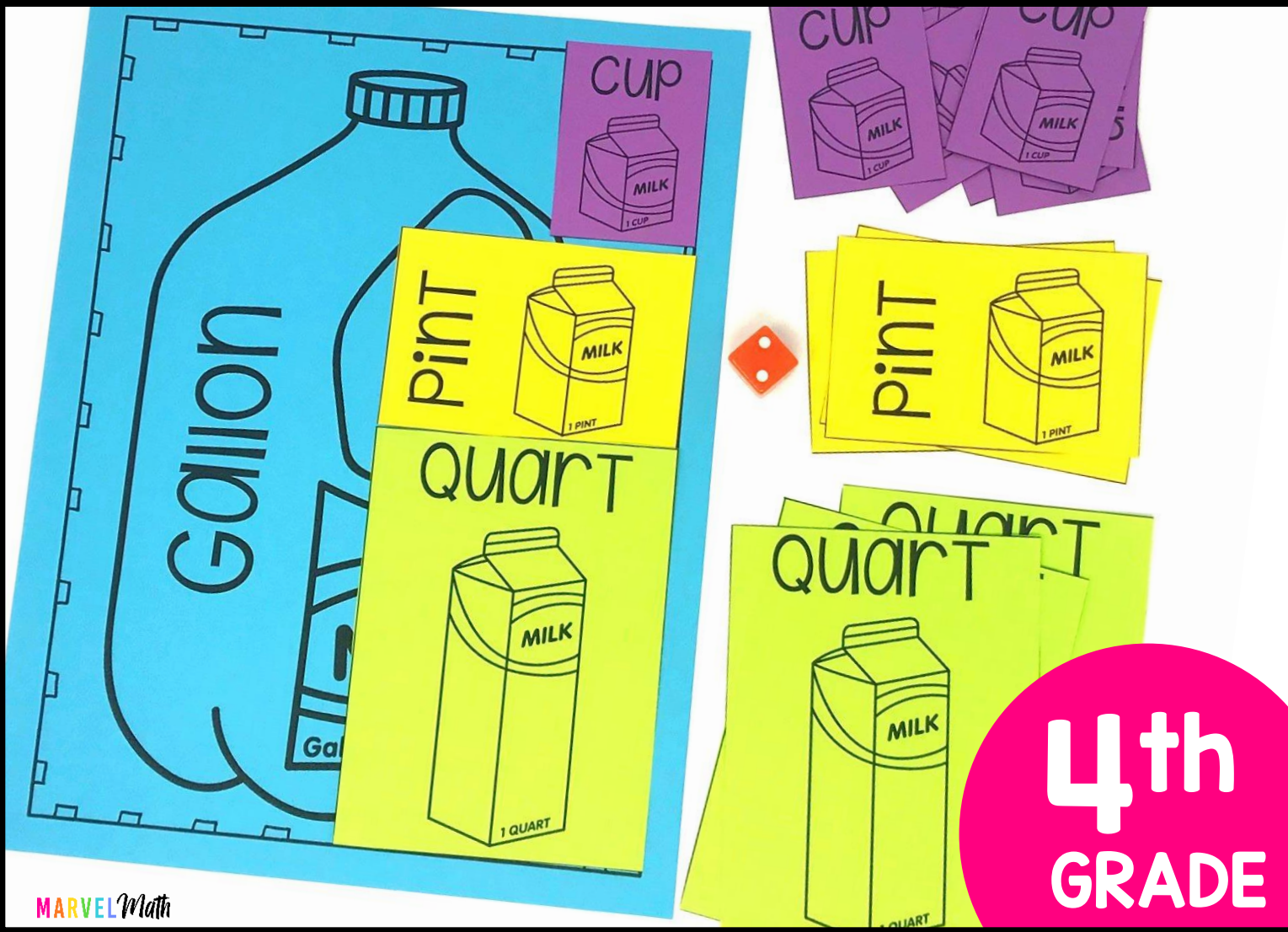


Measurement Gallon Game



A Partner Game to Develop Conceptual Understanding!!!

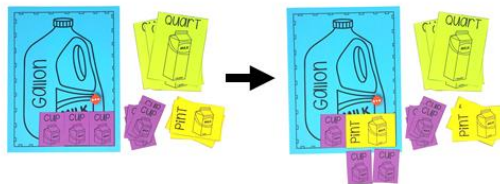


Game is Great for an Easy Math Station

The Gallon Game

Example:

1. Player 1 rolls a 3, places 3 cups on the board and then exchanges 2 cups for 1 pint.



2. Player 1 rolls a 5, places 5 cups on the board, then exchanges 6 cups for 3 pints, then exchanges 4 pints for 2 quarts.



3. Players take turns rolling the die, adding cups and making exchanges until one player wins by covering the gallon with 4 quarts.

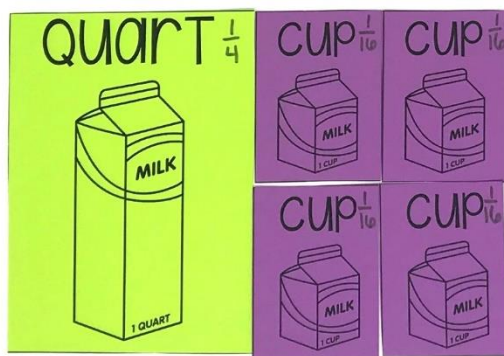
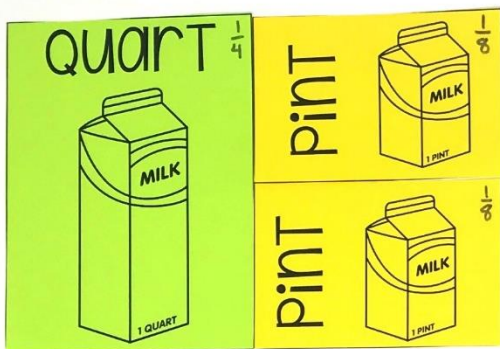
*Decide before you start playing if you have to get the exact number of cups on the last roll, or if that number or greater will allow the player to win the game.



Use the Proportional Pieces to **Make Fraction Connections**

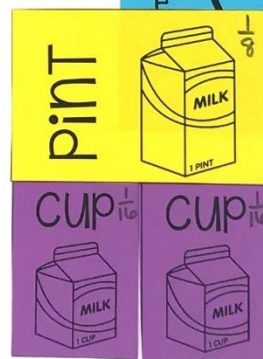
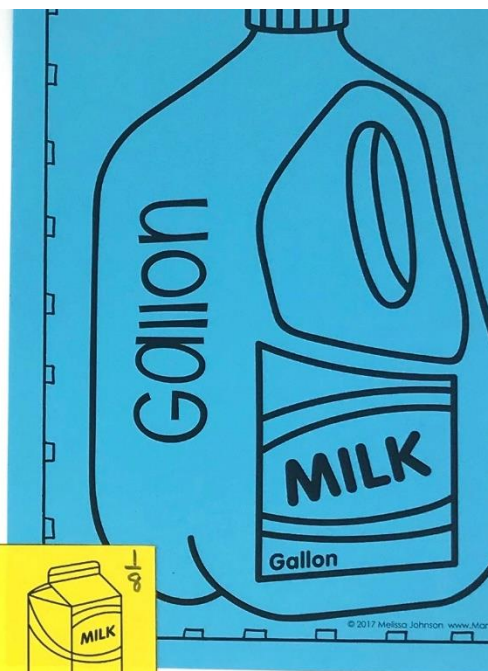
GAME EXTENSION

$$\frac{1}{4} = \frac{2}{8}$$



$$\frac{1}{4} = \frac{4}{16}$$

1 gallon = 1 whole

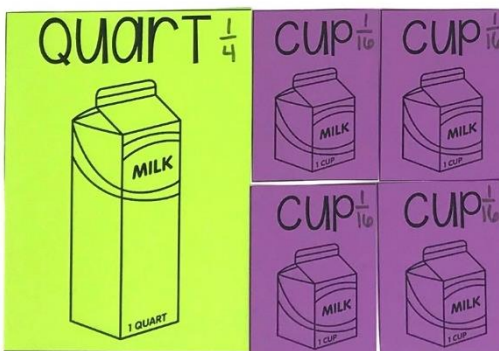
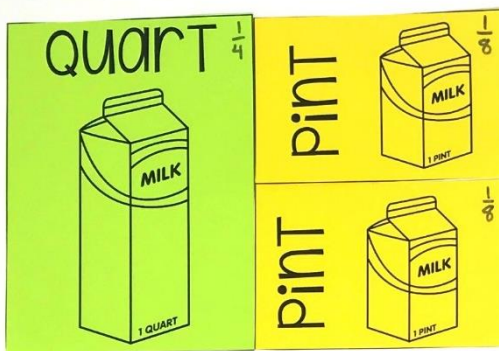


$$\frac{1}{8} = \frac{2}{16}$$

Includes a Fraction Extension Student Recording Sheet

GAME EXTENSION

$$\frac{1}{4} = \frac{2}{8}$$



$$\frac{1}{4} = \frac{4}{16}$$

Fraction Extension

The gallon represents one whole for this activity.

1. What fraction of a gallon is one quart?
2. What fraction of a gallon is one pint?
3. What fraction of a gallon is one cup?

Write the fractions named above on each of the quart, pint and cup pieces.

4. Look at the fractions written on the pieces and find as many equivalent fraction relationships as possible. Record them below.

example:

$\frac{1}{4} = \frac{2}{8}$

Below the example, there are several boxes containing drawings of milk containers (gallons, quarts, pints, cups) and empty space for recording equivalent fraction relationships.

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Includes:

Key

Detailed Instructions

Fraction Extension

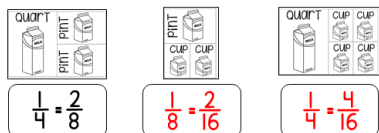
The gallon represents one whole for this activity.

1. What fraction of a gallon is one quart? $\frac{1}{4}$
2. What fraction of a gallon is one pint? $\frac{1}{8}$
3. What fraction of a gallon is one cup? $\frac{1}{16}$

Write the fractions named above on each of the quart, pint and cup pieces.

4. Look at the fractions written on the pieces and find as many equivalent fraction relationships as possible. Record them below.

example:



© Melissa

Fraction Extension

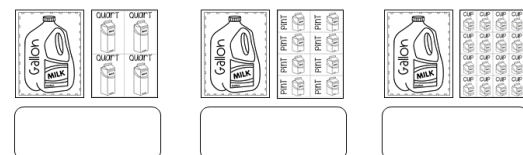
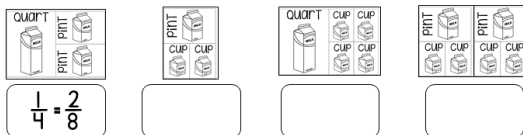
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4. Look at the fractions written on the pieces and find as many equivalent fraction relationships as possible. Record them below.

example:



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The Gallon Game

Materials: 1 die, 1 gallon board for each player, at least 4 quart cards, 4 pint cards and 8 cup cards per player.

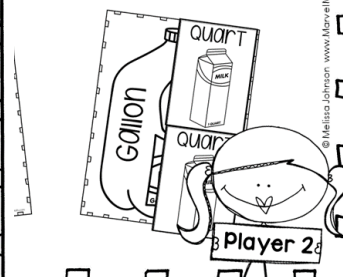
Directions:

1. Player 1 rolls the die and takes that number of cup cards to place on the gallon board. If any conversions to larger units can be made (i.e. 2 cups for 1 pint or 2 pints for a quart), the player makes them. The player

er conversion that could have
not could have been converted to
and go back into the pile.

is.

his or her entire gallon board with
game!!



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Student Activity Sheet

About the Author

This resource was created by Melissa Johnson, who has 16 years of k-10 teaching experience and a masters degree in Mathematics Education. Her resources build conceptual understanding, make connections between math topics and engage students in the mathematics they are learning.



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