

Pour and Round

Round liquid amounts to the nearest whole unit.

GRADE 3 • 3.MG.1.b.iii

3.MG.1.b.iii "Estimate and measure: liquid volume to the nearest U.S. Customary unit (cup, pint, quart, gallon) and metric unit (liter)."

NAME _____

DATE _____

ROUND LIQUID VOLUME

Round liquid amounts to the nearest whole unit. A part smaller than $\frac{1}{2}$ rounds down, and a part that is $\frac{1}{2}$ or more rounds up. Use these facts when needed: 2 cups = 1 pint, 2 pints = 1 quart, 4 quarts = 1 gallon, and 1 liter = 1,000 milliliters.

WORKED EXAMPLE

A lemonade dispenser holds $15 \frac{2}{3}$ pints. About how many pints does it hold?

1. The whole number is 15 pints.
2. The fraction $\frac{2}{3}$ is more than $\frac{1}{2}$.
3. Round 15 pints up to 16 pints.

Answer: 16 pints

PRACTICE 6 problems

- 1** A measuring cup shows $6 \frac{3}{4}$ cups. About how many cups does it show?

ANSWER _____

- 2** A container holds $4 \frac{1}{4}$ pints of water. About how many pints does it hold?

ANSWER _____

- 3** A cooler holds $9 \frac{3}{4}$ quarts of juice. About how many quarts does it hold?

ANSWER _____

- 4** A watering can holds $6 \frac{1}{4}$ gallons. About how many gallons does it hold?

ANSWER _____

- 5** A bottle holds 3 liters 700 milliliters. About how many liters does it hold?

ANSWER _____

- 6** A soup pot holds $11 \frac{1}{4}$ cups. About how many cups does it hold?

ANSWER _____

APPLY IT Show your work

- 1** For a gaming club fundraiser, a drink cooler has 1 gallon and 3 quarts of punch. About how many gallons of punch are in the cooler?

WORK SPACE

ANSWER _____

- 2** The class garden rain barrel has 4 liters 600 milliliters of water. About how many liters of water are in the barrel?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A science club has 1 gallon, 2 quarts, and 3 cups of water. About how many gallons of water does it have altogether? Explain your reasoning in 2 sentences.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A measuring cup shows $6\frac{3}{4}$ cups. About how many cups does it show?	7 cups
2	A container holds $4\frac{1}{4}$ pints of water. About how many pints does it hold?	4 pints
3	A cooler holds $9\frac{3}{4}$ quarts of juice. About how many quarts does it hold?	10 quarts
4	A watering can holds $6\frac{1}{4}$ gallons. About how many gallons does it hold?	6 gallons
5	A bottle holds 3 liters 700 milliliters. About how many liters does it hold?	4 liters
6	A soup pot holds $11\frac{1}{4}$ cups. About how many cups does it hold?	11 cups

PART 2 • APPLY IT

- 2 gallons** Three quarts are $\frac{3}{4}$ of a gallon. The cooler has $1\frac{3}{4}$ gallons, which rounds to 2 gallons.
- 5 liters** Six hundred milliliters is more than half of 1,000 milliliters. Round 4 liters 600 milliliters up to 5 liters.

CHALLENGE

Two quarts are $\frac{1}{2}$ gallon, and 3 cups are $\frac{3}{16}$ gallon. The total is $1\frac{11}{16}$ gallons, which rounds to 2 gallons.

Accept correct unit abbreviations, such as c, pt, qt, gal, and L. For the challenge, accept equivalent reasoning that shows the total rounds to 2 gallons.