

Luna's Space Adventure

Grade 3 · Pounds, ounces, cups and gallons · 3.MG.1

Name _____

Date _____



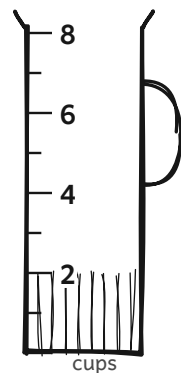
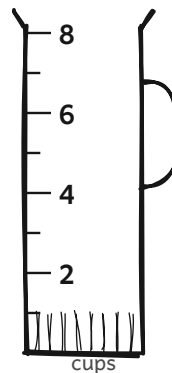
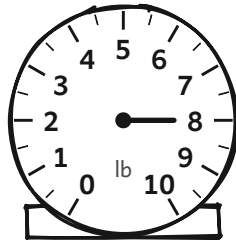
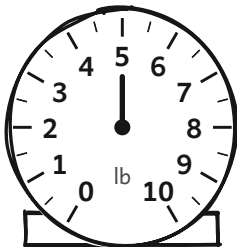
Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Which unit makes sense? Circle the better unit for each weight or amount.

Fish tank: about 10 _____ cups gallons Pencil: about 1 _____ ounce pound

Dog: about 40 _____ ounces pounds Mug: about 1 _____ cup gallon

Read the scale and the jug How many pounds? How many cups?



Same amount 2 cups = 1 pint, 2 pints = 1 quart, 4 quarts = 1 gallon, 16 ounces = 1 pound.

4 gallons = quarts

4 pounds = ounces

3 pounds = ounces

3 quarts = pints

4 quarts = pints

1 pound = ounces

Which is more? Change to the same unit first.

Which holds more?

2 cups 4 gallons

Which holds more?

1 cup 11 gallons

Which is heavier?

1 ounce 2 pounds



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ANSWER KEY



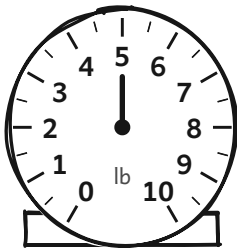
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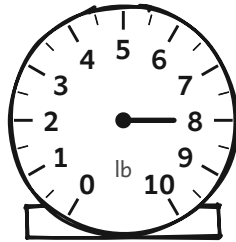
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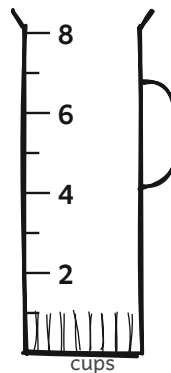
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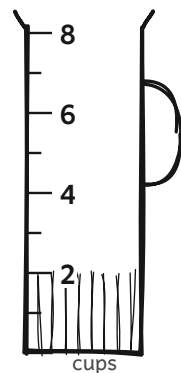
5



8



1



2

Same amount 2 cups = 1 pint, 2 pints = 1 quart, 4 quarts = 1 gallon, 16 ounces = 1 pound.

4 gallons = 16 quarts

4 pounds = 64 ounces

3 pounds = 48 ounces

3 quarts = 6 pints

4 quarts = 8 pints

1 pound = 16 ounces

Which is more? Change to the same unit first.

Which holds more?

2 cups 4 gallons

Which holds more?

1 cup 11 gallons

Which is heavier?

1 ounce 2 pounds



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GUIDE

① What this sheet practises

Weight in ounces and pounds, and liquid volume in cups, pints, quarts and gallons: choosing a sensible unit, reading a scale and a jug, and changing between units.

② A problem from the sheet, worked out

Same amount 2 cups = 1 pint, 2 pints = 1 quart, 4 quarts = 1 gallon, 16 ounces = 1 pound.

4 gallons = **16** quarts

4 pounds = **64** ounces

3 pounds = **48** ounces

3 quarts = **6** pints

4 quarts = **8** pints

1 pound = **16** ounces

How: Two cups make a pint, two pints a quart, four quarts a gallon, and 16 ounces a pound. To change to a smaller unit, multiply: 3 quarts = $3 \times 2 = 6$ pints.

③ Words to know

ounce a small unit of weight

pound 16 ounces

quart 2 pints, or 4 cups

gallon 4 quarts

④ Watch for

- Dividing when changing to a smaller unit (it's multiply).
- Thinking 20 ounces is less than 1 pound because 1 is small.
- Reading the scale's half marks as whole pounds.

⑤ Where it fits

BEFORE

3.MD.A.2

Measure and estimate liquid volume and mass in liters, grams and kilograms.

THIS SHEET

3.MG.1

Estimate and measure length, weight and liquid volume in customary and metric units.

NEXT

4.MD.A.1

Know how units compare in size and convert within one system.

⑥ Helping at home

Fill a quart jar with cups of water and count them. Look at milk cartons: which size is a quart, which a gallon?

