Measure with Cups and Pints

Prerequisite: Compare the Sizes of Containers

Study the example showing how to compare the sizes of containers. Then solve problems 1–5.

Example

Ava is painting a bird house. She uses the can that holds the most paint. Which paint can does Ava use?

Both cans are cylinders and are the same from front to back and side to side. The second can is taller. The second can holds more paint.

Ava used the second can of paint.

 Ava and her mom are painting Ava's bedroom. Which paint can holds the most paint? _____



2 Explain how you can tell whether paint can A, B, or C holds the most paint.



Name:

Which jar holds the least amount of relish? Explain your answer.



Use the information below for problems 4 and 5.

Dasha fills these pitchers with fruit punch.



4 Compare pitchers A and B. Which pitcher holds more fruit punch? Explain your answer.

5 Compare pitchers A and C. Which pitcher holds more fruit punch? Explain your answer.

Estimate Liquid Volume

Study the example showing how to estimate liquid volume. Then solve problems 1–5.

Example

Joshua uses the cup to fill the bucket with water. About how many cups of water will fill the bucket?

Imagine the number of cups it would take to fill the space in the bucket. About 5 cups of water would fill the space.

Pour one cup of water into the bucket. Draw lines to show sections about the same size as one cup of water.

Count the sections. There are 5 sections. The bucket will hold about 5 cups of water.

1 Would an estimate of 6 cups also be reasonable? Explain.

2 Would an estimate of 3 cups be reasonable? Explain.



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3 About how many cups of milk will this bowl hold when it is full?



4 Lara and Ed use water bottles to fill water jugs at a camp. Lara estimates that a jug holds about 5 pints of water. Ed estimates that a jug holds about 7 pints of water. Are both estimates reasonable? Explain your reasoning. Draw on the model to justify your answer.





5 David needs about 3 cups of broth to make chicken soup. Which containers holds about 3 cups of broth when full?





Measure with Cups

Name:

4 cups

2 cups-

cup

4 cups 3 cups

2 cups-

Study the example showing how to measure with cups. Then solve problems 1–4.

Example

Sophia made a smoothie and poured it into a jar. How many cups of smoothie did Sophia make?

Measure to find the number of cups in the smoothie. You can pour the smoothie into a measuring cup and read the mark at the top of the liquid.

The top of the smoothie is at the 3-cup mark. Sophia made 3 cups of smoothie.

1 Sophia and a friend drank some of the smoothie. The measuring cup is now at the 1-cup mark. How many cups did they drink? Explain.



customary system.

2 Jon makes pasta sauce for a family dinner. How many cups of pasta sauce does Jon make?



3 A bird bath holds 8 cups of water. Explain if each of the following shows how 8 cups can be measured.





4 How many cups of juice does Evan pour into the pitcher?

Show your work.





Answer: _____

2 pints

1 pint

Measure with Pints

Study the example showing how to measure with pints. Then solve problems 1–5.

Example

Ellis takes a jug of punch to the class picnic. He wants to know how many pints the jug can hold.

Ellis estimates the number of pints first.

- He imagines how much space one pint would fill.
- Then he imagines sections about the same size.
- He estimates 10 pints.

Next, Ellis measures the amount of punch.

- He pours 1 pint of punch into the jug 10 times.
- The jug holds 10 pints of punch.
- Briana says Ellis could use the measuring cup and pour 10 pints into the jug using 2 pints. How can Ellis do that?



2 Kate measured the amount of shampoo in a bottle. How many pints of shampoo does the bottle hold?



3 Chloe measures the amount of water in a watering can. How many pints of water does Chloe pour out of the watering can?



Ari want to know how many pints of barbecue sauce will fit in the jar. Describe how Ari can measure how much sauce will fit in the jar.





Measure with Cups and Pints

Solve the problems.

cups of cocoa do picture of the 1-0	bes the jug hold? Use the cup mug to help you.	Imagine the amount of space 1 cup of cocoa would fill.
1 cup		
Answer:		
Emily pours wat the measuring c water does the t	er from a full teapot into up. How many pints of eapot hold?	Which marks are for pints?
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