Jugs and Mugs

Make and Enjoy Lemon Drink

You will need

- One glass of water
- A pinch of salt
- One spoon of sugar
- Half a lemon

How to make it:

1. Fill a glass with water.
2. Add a pinch of salt.
3. Add one spoon of sugar.
4. Squeeze half a lemon into the glass.

Guess and then find out:

How many drops of lemon juice do you get from half a lemon? _______

How many drops of lemon juice do you get from a full lemon? _______

How many drops of lemon juice fill one spoon? _______

Enjoy your lemon drink!

To make a drink, locally available material can be used or the name of the drink can also be substituted. The focus should be on volume.
We will sell one small glass for Rs 5.
Let us sell one big glass for Rs10. Okay!

Lemon Drink
Thanda! Thanda! Cool! Cool!
for Rs 10
for Rs 5

Aneesh got a jug.
Do you think it is easier to pour into a glass from a jug than a bucket?

For making 6 glasses of lemon drink –
How many lemons will you need? _________
How many spoons of sugar will you take? _________

Lemon Drink Stall at a Village Fair
There is a fair in Chaitra's village. Chaitra, Nazim and Aneesh want to put up a stall to sell lemon drink. They make a bucket full of lemon drink.
They use two different sizes of glasses.
Nazim found that two big glasses fill the jug. Shabnam wants to buy one jug full of lemon drink. How much does she need to pay? 

Chaitra found that two small glasses fill one big glass. How many small glasses of lemon drink will fill the jug? 

How many small glasses will fill half the jug?

**Fun in Filling Vessels**

Find out how many cups of water will fill your bottle. First guess and then try it out.

Now, fill a different bottle with the same cup. Which bottle holds less water?

Try it with another bottle. Which bottle holds the least water?
Sunaina and Jaspreet brought different vessels from the kitchen. They had a jug, a glass, a mug, a pot and a bowl. They filled each of these with a cup.

Guess which vessel holds the least water. _____________
Which vessel holds the most water? ________________

Now, you collect different vessels from your kitchen. Use the same cup to fill each of them. Count the number of cups of water each of them can hold.

First guess and then do it.

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<th>The vessel you used</th>
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Ring the one which holds more water.
Rani and the Milkman

Anil is a milkman. He gives the same amount of milk at Rani’s house every day. He uses a mug three times to fill Rani’s milk pot.

One day Rani’s mother gave her a different pot to take milk. Every day Rani’s pot would fill to the top. But today Rani found that the pot was not filled completely.

Do you think Anil has given Rani less milk? Help her.

Find out
How much milk does your mother buy every day? _____

Try Yourself
Take five different types of big vessels from your kitchen. Fill all of them one by one with one jug full of water. What do you see? Why? Talk to your friends about it.
Thirsty Crow

Chirpy crow was very thirsty. It looked everywhere but could not find water. Suddenly it saw a pitcher (matka). When it tried to drink water, it found there was very little water in the pitcher. It saw pebbles lying nearby.

I have an idea!

It put the pebbles into the pitcher one by one.

The water came up.

Chirpy drank water and flew away.
Do You Want to Be Like Chirpy?

Do you want to know how the water in the 🥄 pitcher came up?

Take two 🥄 glasses of the same size.
Fill half of each glass with water.
You have to put tamarind (imli) seeds in the first glass to raise the water to the top. Guess how many seeds you will need to put in.
Now, do it.
Count the number of seeds used. ___________
Now put the same number of marbles in the second glass.
What happens?
Repeat it with stones.
What happens now? Why?
Talk about it in the class.
Water is Useful

Find out how much water (in mugs or buckets) is used in your house for each of the following.

Guess and then find out:

a) How many mugs of water fill one bucket? __________

b) How many buckets of water do you use to take a bath? __________

c) How many mugs of water do you use to take a bath? __________

How much water is needed to fill a water gun (pichkari)? __________

I can drink 9 buckets of water at once. How many buckets can two camels drink at once?

Children should be encouraged to do the activity at home and note the observations. A discussion can be held in the class to compare the volumes of various vessels used by children.