
How many ways to fill a jug?

CHALLENGE 1:

You will need:

1 empty milk carton (1 litre)

1 large empty water bottle (2 litres)

1 yoghurt cup

a) Pour cups of water using the yoghurt cup into the milk carton.

Always fill the cup completely to get the best results.

How many cups fill the milk carton?

Answers may vary.

b) Pour cups of water using the yoghurt cup into the water bottle.

How many cups fill the water bottle?

Answers may vary.

c) How many milk cartons fill the water bottle?

2 bottles

d) Did you notice anything between the results of the water bottle and the milk carton?

The water bottle holds double the amount of the milk carton.

CHALLENGE 2:



1 cup



Jar
holds 3 cups



Bottle
holds 4 cups



Jug
holds 12 cups

a) How many jars do you need to fill the jug?

4 jars

b) How many bottles do you need to fill the jug?

3 bottles

c) Find as many different ways as you can, for filling the jug using more than one container.

1 jar, 9 cups

1 jar, 1 cup and 2 bottles

1 jar, 1 bottle and 5 cups

2 jars and 6 cups

2 jars and 1 bottle and 2 cups

3 jars and 3 cups

2 bottles and 4 cups

1 bottle and 8 cups