Reasoning and Problem Solving
Step 5: Measure Capacity

National Curriculum Objectives:

Mathematics Year 1: (1M1) Compare, describe and solve practical problems for: capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]
Mathematics Year 1: (1M2) Measure and begin to record: capacity and volume

Differentiation:

Questions 1, 4 and 7 (Problem Solving)
Developing Calculate the capacity of up to 2 of an item when given the capacity in a non-standard unit.
Expected Calculate the capacity of up to 5 of an item when given the capacity in a non-standard unit. Counting in 2s and 10s.
Greater Depth Calculate the capacity of up to 5 of 2 items when given their capacities in a non-standard unit. Counting in 2s and 10s.

Questions 2, 5 and 8 (Problem Solving)
Developing When given the capacity of 3 items in a non-standard unit, colour in non-standard units of 1 of the items.
Expected When given the capacity of 3 items in a non-standard unit, colour in non-standard units of 2 of the items.
Greater Depth When given the capacity of 3 items in a non-standard unit, colour in non-standard units of 3 items, including some doubling.

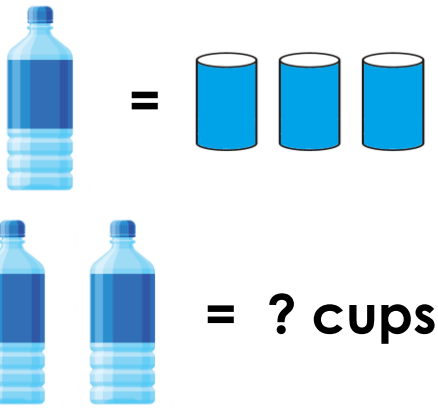
Questions 3, 6 and 9 (Reasoning)
Developing Explain which statement relating to capacity is correct. Same non-standard unit used.
Expected Explain which statement relating to capacity is correct. Varied non-standard units used.
Greater Depth Explain which statement relating to capacity is correct. Doubling/halving statements used. Varied non-standard units used.

More Year 1 Weight and Volume resources.

Did you like this resource? Don't forget to review it on our website.

Measure Capacity

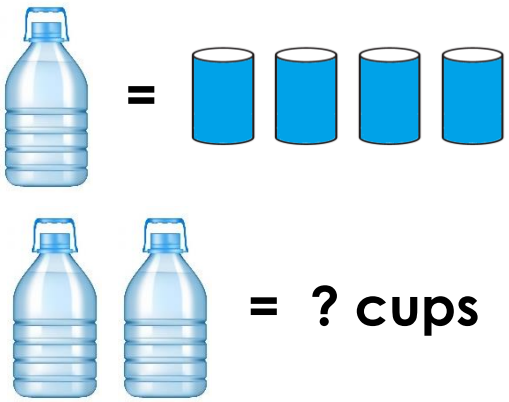
1a. One bottle holds three cups of water. What is the capacity of two bottles?



D PS

Measure Capacity

1b. One bottle holds four cups of water. What is the capacity of two bottles?



D PS

2a. The table shows the capacities of some containers.

Jar	2 cups
Drinks bottle	3 cups
Lunch box	4 cups

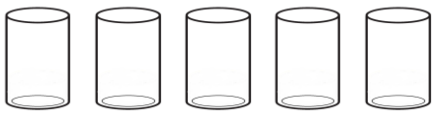
Colour in the cups to show the capacity of a lunch box.

D PS

2b. The table shows the capacities of some containers.

Casserole dish	5 cups
Mug	1 cup
Coffee pot	3 cups

Colour in the cups to show the capacity of a coffee pot.



D PS

3a. Jo and Tom are filling their cups with water from the jug. Who is correct? Convince me.

Jo's cup

Tom's cup

Jo

I will get more water.

We will both get the same.

Tom

D R

3b. Chen and Rob are filling their cups with juice from the jug. Who is correct? Convince me.

Chen's cup

Rob's cup

Chen

We will both get the same.

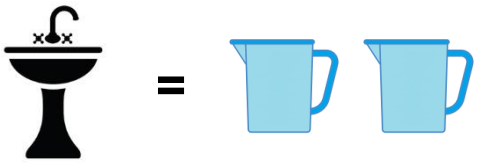
I will get less water.

Rob

D R

Measure Capacity

4a. One sink holds two jugs of water. What is the capacity of four sinks?

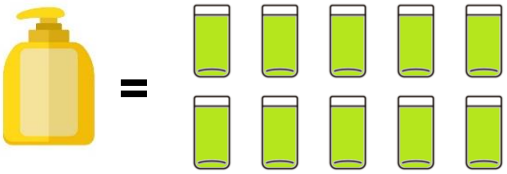


= ? jugs

E PS

Measure Capacity

4b. One bottle holds ten jars of shampoo. What is the capacity of three bottles?



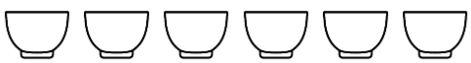
= ? jars

E PS

5a. The table shows the capacities of some containers.

Mug 	1 egg cup
Coffee pot 	3 egg cups
Lunch box 	2 egg cups

Colour in the egg cups to show the capacity of a mug and a lunch box.



E PS

5b. The table shows the capacities of some containers.

Casserole dish 	5 jars
Drinks bottle 	2 jars
Kettle 	3 jars

Colour in the jars to show the capacity of a drinks bottle and a kettle.

E PS

6a. Mia and Ben are filling their cups with tea from the pot. Who is correct? Convince me.

Mia's cup

Ben's cup

I will only get one cup from the teapot.

Mia

I will get more than one cup from the teapot.

Ben

E R

6b. Lucy and Jake are filling their cups with juice from the jug. Who is correct? Convince me.

Lucy's cup

Jake's cup

I will only get one cup from the jug.

Lucy

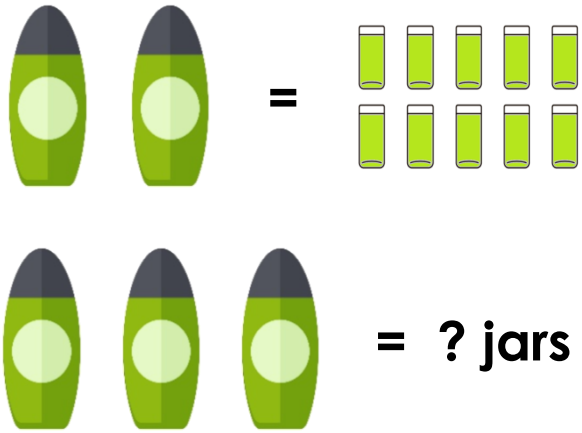
I will get more than one cup from the jug.

Jake

E R

Measure Capacity

7a. Two bottles hold ten jars of cream. What is the capacity of three bottles?



GD PS

Measure Capacity

7b. Two mugs hold four thimbles of tea. What is the capacity of three mugs?

GD PS

8a. The table shows the capacities of some containers.

Cup	1 jar
Kettle	3 jars
Casserole dish	5 jars

Colour in the jars to show the capacity all three containers.

GD PS

8b. The table shows the capacities of some containers.

Lunch box	4 egg cups
Mug	1 egg cup
Drinks bottle	2 egg cups

Colour in the egg cups to show the capacity all three containers.

GD PS

9a. Soph and Kai are filling their cups with water from the jug. Who is correct? Convince me.

Soph's cup

Kai's cup

Soph: My drink will be twice as big as Kai's.

Kai: My cup is half as big as the jug.

GD R

9b. Fozia and Aleks are filling their cups with tea from the pot. Who is correct? Convince me.

Fozia's cup

Aleks' cup

Fozia: I will have half as much tea as Aleks.

Aleks: I will have less tea than Fozia.

GD R

Reasoning and Problem Solving
Measure Capacity

Developing

1a. 6 cups

2a. 4 cups should be shaded.

3a. Tom is correct because the cups are the same size.

Expected

4a. 8 jugs

5a. 3 egg cups should be shaded.

6a. Ben is correct because the teapot is larger than both Ben and Mia's cups.

Greater Depth

7a. 15 jars

8a. 9 jars should be shaded.

9a. Soph is correct because her cup is double the size of Kai's.

Reasoning and Problem Solving
Measure Capacity

Developing

1b. 8 cups

2b. 3 cups should be shaded.

3b. Rob is correct because his cup is smaller than Chen's.

Expected

4b. 30 jars

5b. 5 jars should be shaded.

6b. Lucy is correct because the jug is not full.

Greater Depth

7b. 6 thimbles

8b. 7 egg cups should be shaded.

9b. Fozia is correct because her cup is half the size of Aleks'.