Reasoning ad Problem Solving Step 5: Measure Capacity 1

National Curriculum Objectives:

Mathematics Year 3: (3M1c) <u>Compare volume/capacity (I/ml)</u>
Mathematics Year 3: (3M2c) <u>Measure volume/capacity (I/ml)</u>

Differentiation:

Questions 1, 4 and 7 (Reasoning)

Developing Finding the odd one out. 3 containers with scales that increase by 1 or 100. All increments labelled and all answers on labelled increments.

Expected Finding the odd one out. 3 containers with scales that increase by 1, 50 or 100. Some scales with every other increment labelled.

Greater Depth Finding the odd one out. 3 containers with scales that increase by 1, 2, 50, 100 or 200. Most increments are unlabelled on the scales, and some measurements may fall in between increments.

Questions 2, 5 and 8 (Problem Solving)

Developing Working out 3 possibilities for volumes of liquid from given statements and marking these on scales. Scales increase by 1 or 100. All increments labelled and all answers on labelled increments.

Expected Working out 3 possibilities for volumes of liquid from given statements and marking these on scales. Scales increase by 1, 50 or 100. Some scales with every other increment labelled.

Greater Depth Working out 3 possibilities for volumes of liquid from given statements and marking these on scales. Scales increase by 1, 2, 50, 100 or 200. Most increments are unlabelled on the scales, and some measurements may fall in between increments.

Questions 3, 6 and 9 (Reasoning)

Developing Deciding whether a given statement about the volume of a liquid is correct. Scales increase by 1 or 100. All increments labelled and all answers on labelled increments.

Expected Deciding whether a given statement about the volume of a liquid is correct. Scales increase by 1, 50 or 100. Some scales with every other increment labelled.

Greater Depth Deciding whether a given statement about the volume of a liquid is correct. Scales increase by 1, 2, 50, 100 or 200. Most increments are unlabelled on the scales, and some measurements may fall in between increments.

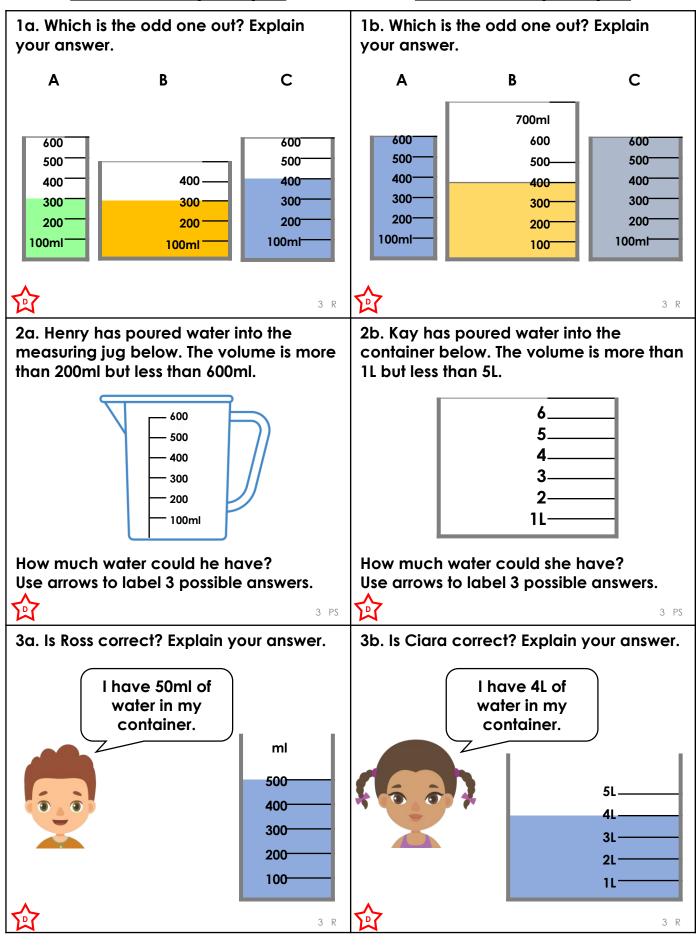
More Year 3 and Year 4 Mass and Capacity resources.

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



Measure Capacity 1

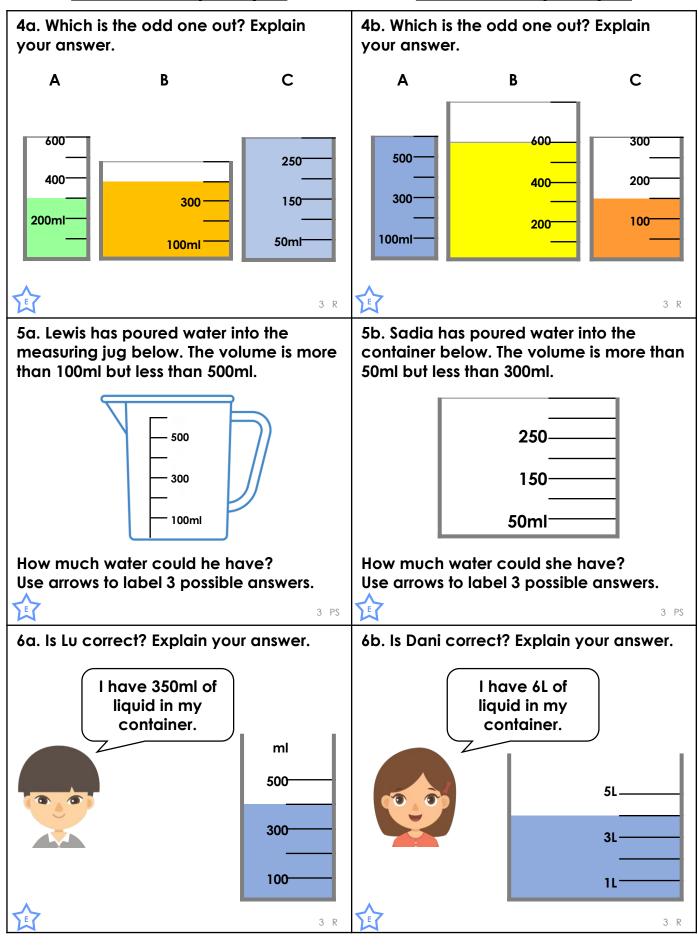
Measure Capacity 1





Measure Capacity 1

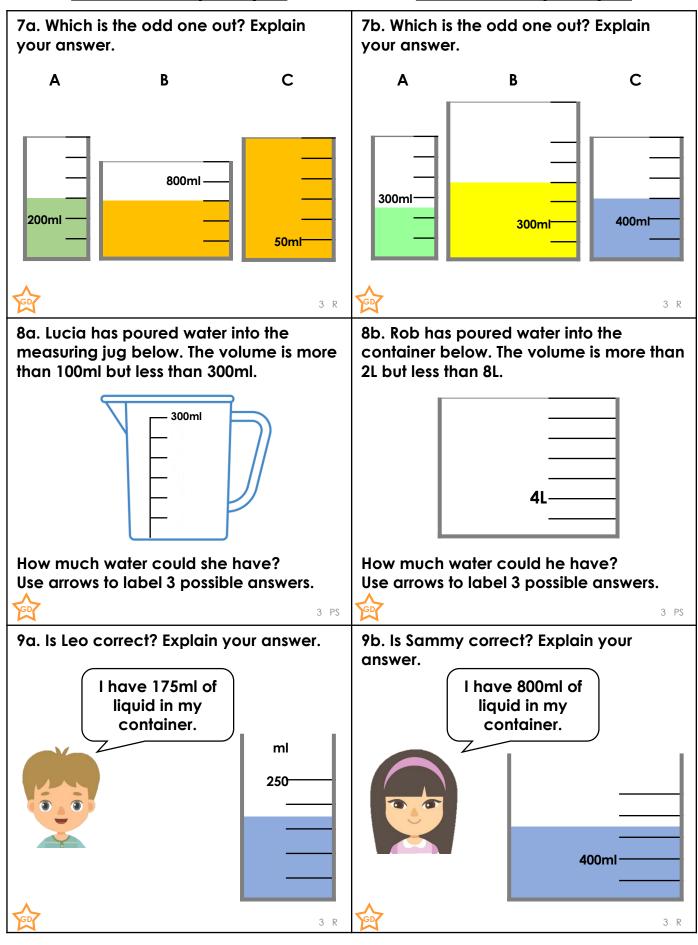
Measure Capacity 1





Measure Capacity 1

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Reasoning and Problem Solving Measure Capacity 1

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Developing

1a. C is the odd one out. The capacities of A and B are both 300ml but the capacity of C is 400ml.

2a. Various possible answers, for example: 300ml, 400ml, 500ml.

The 3rd, 4th and 5th increments from the bottom labelled.

3a. Ross is not correct.

The scale is in increments of 100ml so the volume of liquid is 500ml.

Expected

4a. B is the odd one out. The volumes of liquid in A and C are both 300ml but the volume in B is 400ml.

5a. Various possible answers, for example: 200ml, 300ml, 400ml.

The 2nd, 3rd and 4th increments from the bottom labelled.

6a. Lu is not correct.

The scale is increments of 100ml. The water level is half way between 300ml and 500ml so the volume is 400ml.

<u>Greater Depth</u>

7a. B is the odd one out. The volumes of liquid in A and C are both 300ml but the volume in B is 600ml.

8a. Various possible answers, for example: 150ml, 200ml, 150ml.

The 3rd, 4th and 5th increments from the bottom labelled.

9a. Leo is correct.

The scale is increments of 50ml. The water level is half way between 150ml and 200ml so the volume is 175ml.

Developing

1b. B is the odd one out. The volumes of liquid in A and C are both 600ml but the volume in B is 400ml.

2b. Various possible answers, for example: 2L, 3L, 4L.

The 2nd, 3rd and 4th increments from the bottom labelled.

3b. Ciara is correct. The scale is in increments of 1L so the volume of liquid is 4L.

Expected

4b. C is the odd one out. The volumes of liquid in A and B are both 600ml but the volume in C is 150ml.

5b. Various possible answers, for example: 100ml, 150ml, 200ml.

The 2nd, 3rd and 4th increments from the bottom labelled.

6b. Dani is not correct.

The scale is increments of 1L. The water level is half way between 3L and 5L so the volume is 4L.

Greater Depth

7b. A is the odd one out. The volumes of liquid in B and C are both 600ml but the volume in A is 250ml.

8b. Various possible answers, for example: 4L, 6L, 7L.

The 2nd, 3rd and midway between the 3rd and 4th increments from the bottom labelled.

9b. Sammy is not correct.

The scale is increments of 200ml. The water level is half way between 600ml and 800ml so the volume is 700ml.

