Reasoning and Problem Solving Step 6: Compare Capacity

National Curriculum Objectives:

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

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Use the exchange rate (between container types) given to order three sets of containers by volume. Comparisons are made between groups of single container types. Expected Use the exchange rate (between container types) given to order three sets of containers by volume. Comparisons are made between groups of mixed container types. Greater Depth Use the exchange rate (between container types) given to order three sets of containers by volume. Comparisons are made between groups of mixed container types. Greater Depth Use the exchange rate (between container types) given to order three sets of containers by volume. Comparisons are made between groups of mixed container types (including empty containers), shown by descriptions and/or images.

Questions 2, 5 and 8 (Problem Solving)

Developing Use the exchange rate (between container types) given to find how many containers are required to solve a problem. Comparisons are made between groups of single container types.

Expected Use the exchange rate (between container types) given to find how many containers are required to solve a problem. Comparisons are made between groups of mixed container types.

Greater Depth Use the exchange rate (between container types) given to find how many containers are required to solve a problem. Comparisons are made between groups of mixed container types, shown by descriptions and/or images.

Questions 3, 6 and 9 (Reasoning)

Developing Tick the correct reasoning used in a capacity or volume comparison.

Comparisons are made between groups of single container types.

Expected Tick the correct reasoning used in a capacity or volume comparison.

Comparisons are made between groups of mixed container types.

Greater Depth Complete the reasoning stem sentence used in a capacity or volume comparison. Comparisons are made between groups of mixed container types, shown by descriptions and/or images.

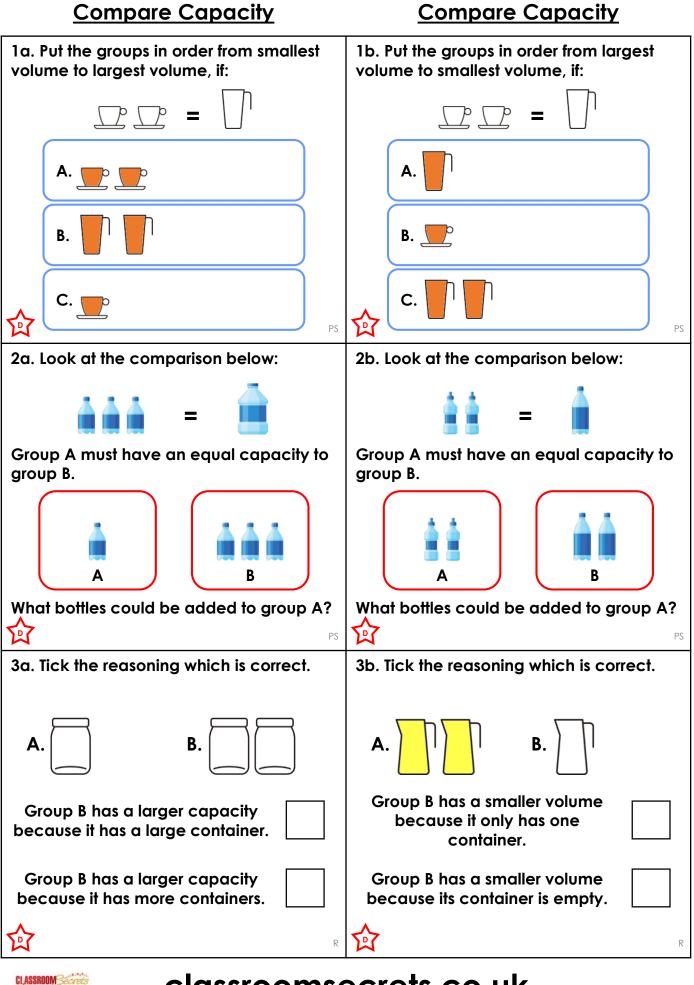
More <u>Year 1 Weight and Volume</u> resources.

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



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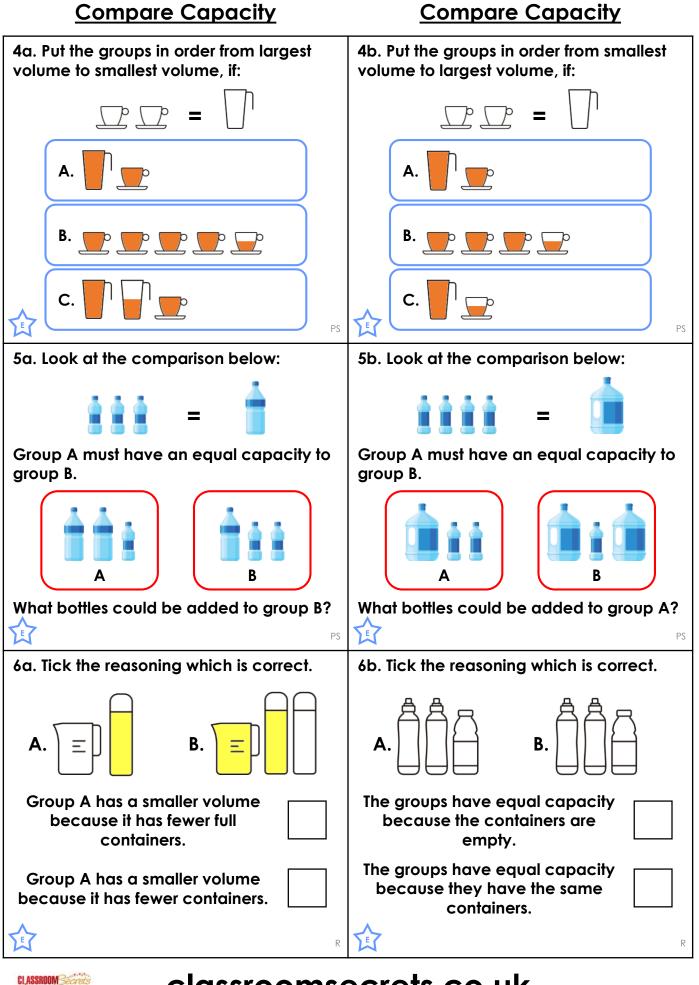
Reasoning and Problem Solving – Compare Capacity – Teaching Information



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Reasoning and Problem Solving – Compare Capacity – Year 1 Developing

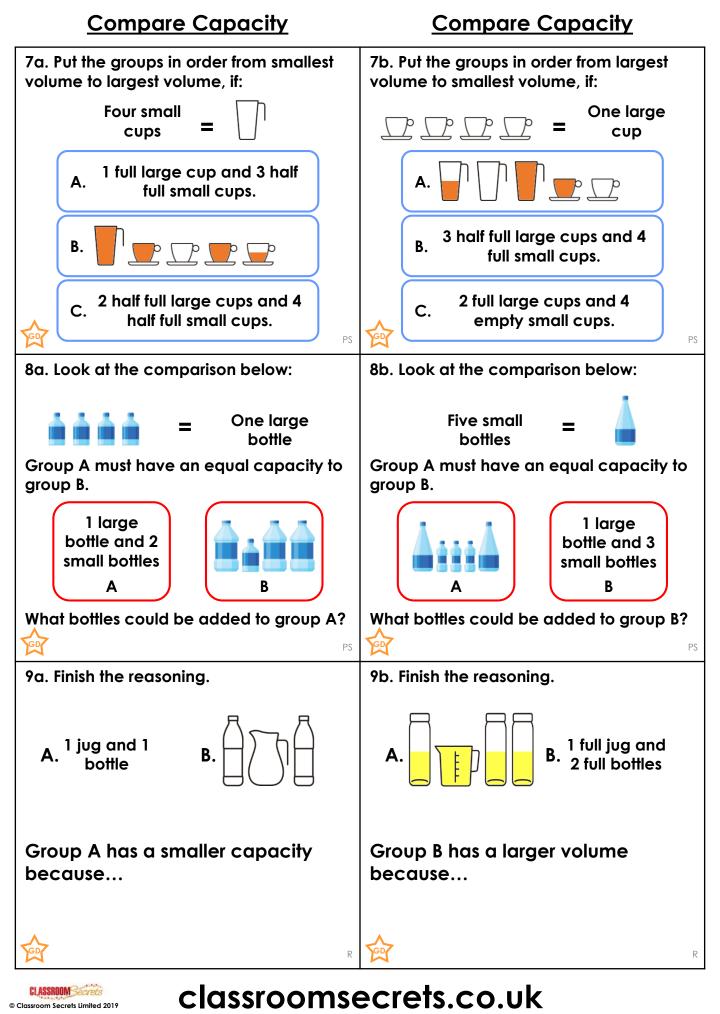
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Reasoning and Problem Solving – Compare Capacity – Year 1 Expected



Reasoning and Problem Solving – Compare Capacity – Year 1 Greater Depth

<u>Reasoning and Problem Solving</u> <u>Compare Capacity</u>

Developing

1a. C, A, B
2a. 2 small bottles
3a. Group B has a larger capacity because it has more containers.

Expected

4a. B, C, A
5a. 2 small bottles
6a. Group A has a smaller volume because it has fewer full containers.

Greater Depth

7a. A, C, B
8a. Either 7 small bottles or 1 large bottle and 3 small bottles
9a. Various possible answers, for example: Group A has a smaller capacity because

it has one bottle fewer.

<u>Reasoning and Problem Solving</u> <u>Compare Capacity</u>

Developing

1b. C, A, B2b. Either 2 small bottles, or 1 large bottle3b. Group B has a smaller volumebecause its container is empty.

Expected

4b. B, C, A
5b. 3 small bottles
6b. The groups have equal capacity because they have the same containers.

Greater Depth

7b. B, C, A

8b. Either 1 large bottle or 5 small bottles 9b. Various possible answers; for example: Group B has a larger volume because 2 full bottles have a greater volume than 3 half full bottles.



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Reasoning and Problem Solving – Compare Capacity ANSWERS