Discussion Problems
Step 5: Measure Capacity 1

National Curriculum Objectives:

Mathematics Year 3: (3M1c) Compare volume/capacity (l/ml)
Mathematics Year 3: (3M2c) Measure volume/capacity (l/ml)

About this resource:

This resource has been designed for pupils who understand the concepts within this step. It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More Year 3 Mass and Capacity Resources resources.

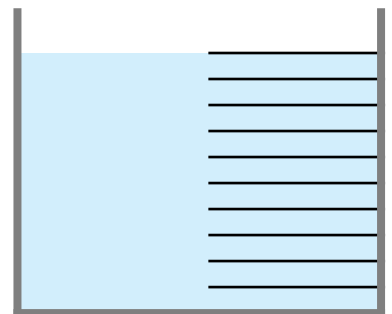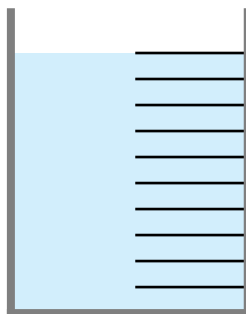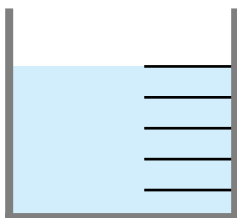## Did you like this resource? Don't forget to review it on our website.

Measure Capacity 1

1. Marina is filling a 20L paddling pool with water. She can use any of the containers below.

A

ml
1L
800
600
400
200

B

L
3
$2\frac{1}{2}$
2
$1\frac{1}{2}$
1

20L

C

5L
4L
3L
2L
1L

D

1L
800
600
400
200
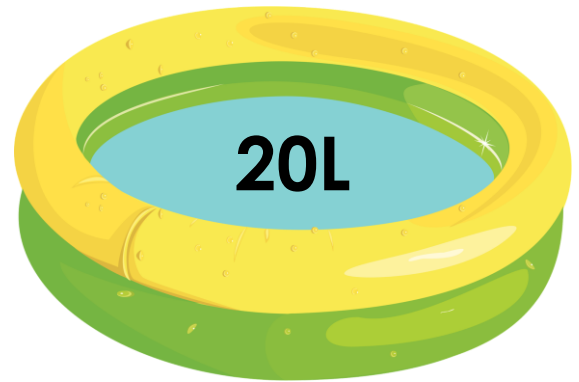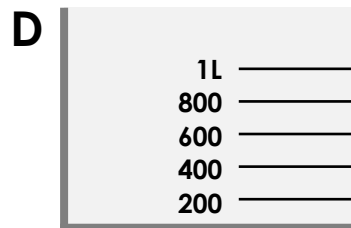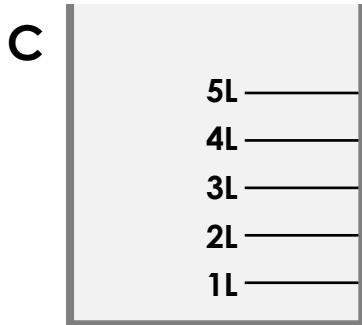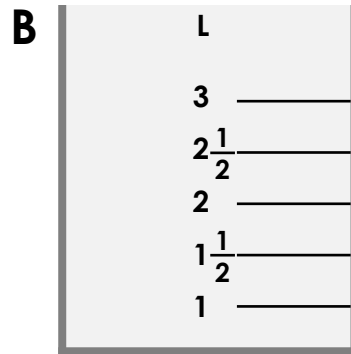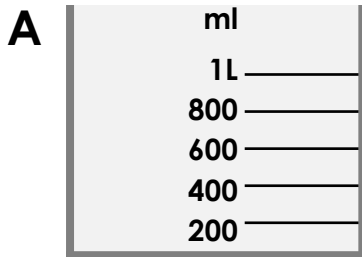
Find combinations of containers that she could use to fill the paddling pool to 20L.
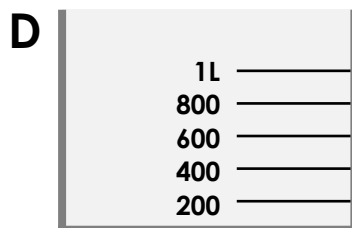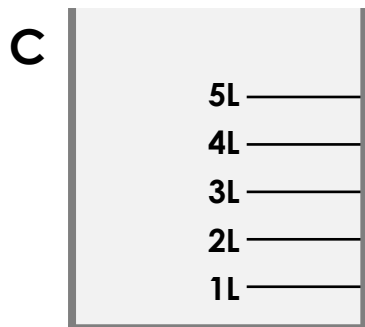
DP

2. The measuring cylinders below have their scales missing. Each of them have been filled using the bottles above them. Estimate the capacity of the bottles and use this to help rewrite the scales according to what units they are likely to be measuring in.

DP

Measure Capacity 1

1. Marina is filling a 20L paddling pool with water. She can use any of the containers below.

A

ml
1L
800
600
400
200

B

L
3
2½
2
1½
1

20L

C

5L
4L
3L
2L
1L

D

1L
800
600
400
200

Find combinations of containers that she could use to fill the paddling pool to 20L.

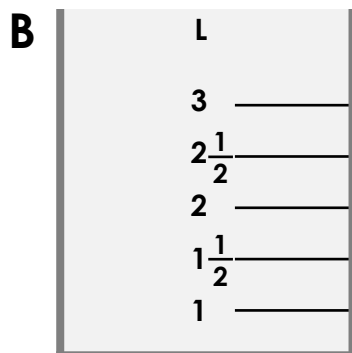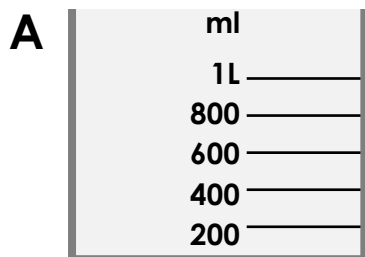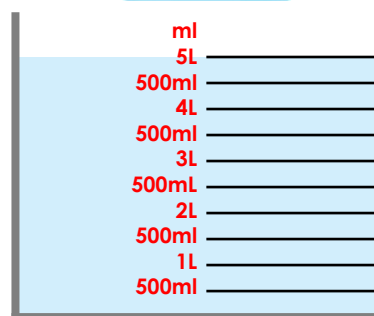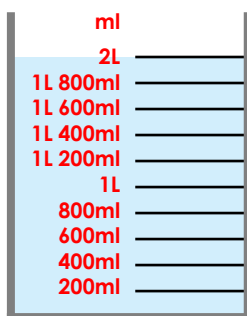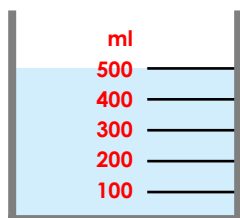**Various answers, for example: 3 x C (5L) and 5 x A (1L)**

DP

2. The measuring cylinders below have their scales missing. Each of them have been filled using the bottles above them. Estimate the capacity of the bottles and use this to help rewrite the scales according to what units they are likely to be measuring in.

500ml

2L

2L

ml
500
400
300
200
100

ml
2L
1L 800ml
1L 600ml
1L 400ml
1L 200ml
1L
800ml
600ml
400ml
200ml

ml
5L
500ml
4L
500ml
3L
500mL
2L
500ml
1L
500ml

DP

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Discussion Problems – Measure Capacity 1 **ANSWERS**