

Capacity Challenges

Challenge 1

Janine needs to fill a bucket with 2 litres (2000ml) of water. She has bottles which hold the following amounts:

200ml, 250ml, 500ml, 750ml

Give two different ways that Janine can fill the bucket (you may use each container more than once).



Capacity Challenges

Challenge 2

Lucien needs to fill a bucket with 1 litre 500ml (1500ml). He has containers which hold the following amounts:

100ml, 200ml, 250ml, 300ml.

Give two different ways that Lucien can fill the bucket (you may use each container more than once).

Capacity Challenges

Challenge 3

Siobhan needs to fill a bucket with 2 litres 500ml (2500ml). She has containers which hold the following amounts:

250ml, 300ml, 500ml, 750ml

Give two different ways that Siobhan can fill the bucket (you may use each container more than once).



Capacity Challenges Answers

All problems have a variety of possible answers, here are some examples:

Challenge 1: (2000ml)

- 200ml + 200ml · 500ml + 500ml + 500ml + 500ml + 500ml +200ml + 200ml
- 250ml + 250ml
- 500ml + 500ml + 500ml + 500ml
- 750ml + 750ml + 500ml
- 500ml + 500ml + 200ml + 200ml + 200ml + 200ml + 200ml

Challenge 2: (1500ml)

- 100ml + 100m100ml + 100ml + 100ml + 100ml + 100ml + 100ml + 100ml
- 200ml + 200ml + 200ml + 200ml + 250ml + 250ml + 250ml
- 250ml + 250ml + 250ml + 250ml + 250ml + 250ml
- 300ml + 300ml + 300ml + 300ml + 300ml
- 300ml + 300ml + 300ml + 200ml + 200ml + 200ml

Challenge 3: (2500ml)

- 250ml + 250ml + 250 ml + 250ml + 250ml + 250ml + 250ml + 250ml + 250ml + 250ml
- \cdot 750ml + 750ml + 750ml + 250ml
- 750ml + 750ml + 250ml + 250ml + 500ml

