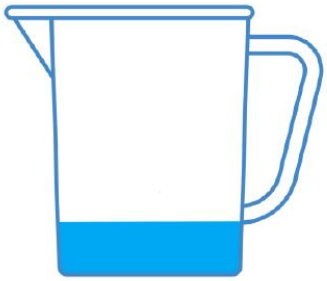
Fluency

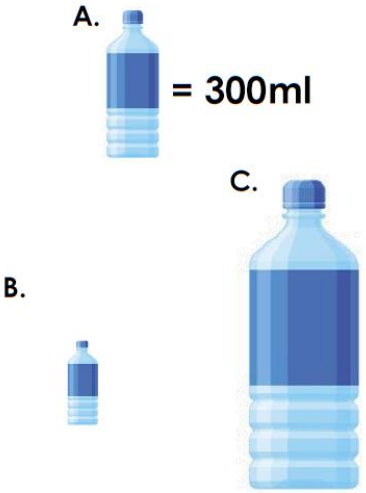
## Estimate Capacity

1a. There is 200ml of water in this container. Estimate the capacity of the container.



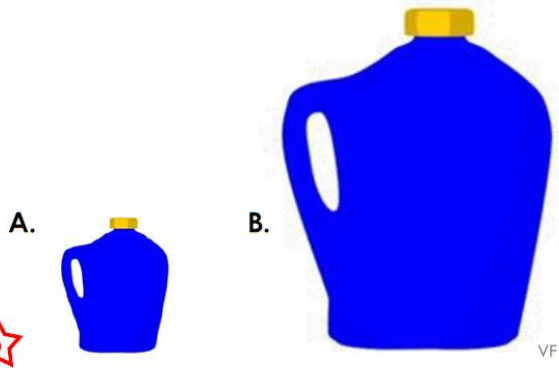
VF

2a. Using the capacity of container A, estimate the capacity of containers B and C.




VF

3a. Container A is full of rice. Estimate how many of container A would fill container B?

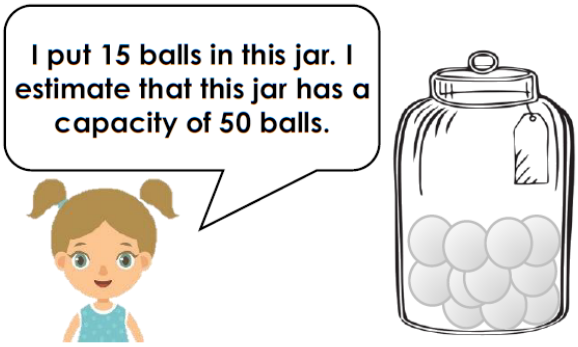



VF

Reasoning and Problem solving

## Estimate Capacity

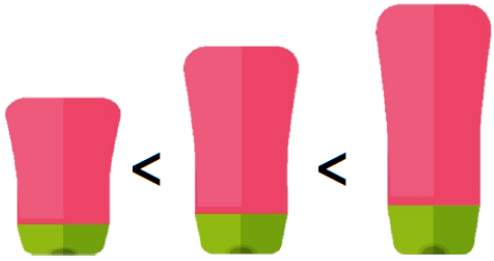
1b. Ellie says:




Do you agree with this estimate? Explain why.

R

2b. Estimate the capacity of the containers to complete the statement. One of the containers has a capacity of 600ml.




A. B. C.

PS

3b. Adam has poured 100ml into each of the containers. He says container B has the least capacity.

A. B. C.

Is this a sensible estimation? Explain your answer.

R

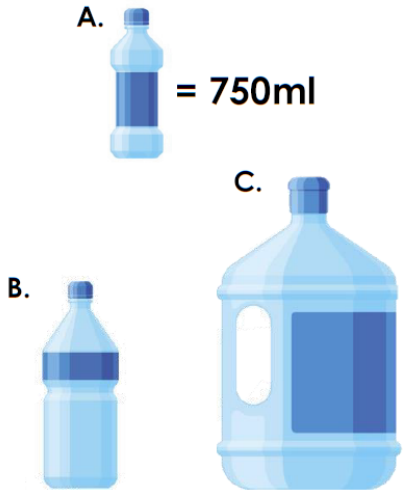
Fluency

## Estimate Capacity

4a. There is 550ml of water in this container. Estimate the capacity of the container.

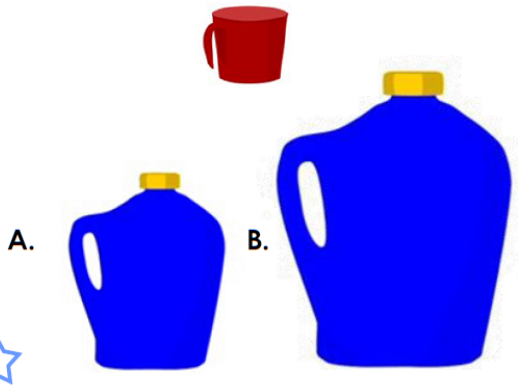
VF

5a. Using the capacity of container A, estimate the capacity of containers B and C.




VF

6a. Estimate how many cups of rice it would take to fill bottles A and B.

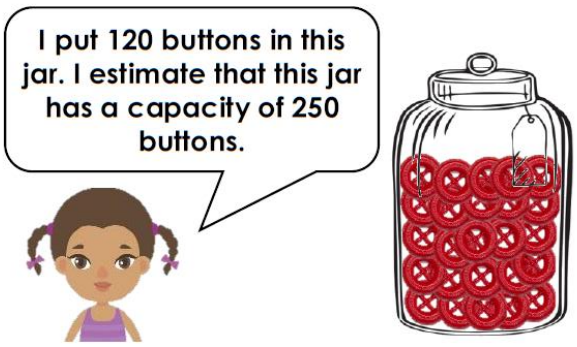



VF

Reasoning and Problem solving

## Estimate Capacity

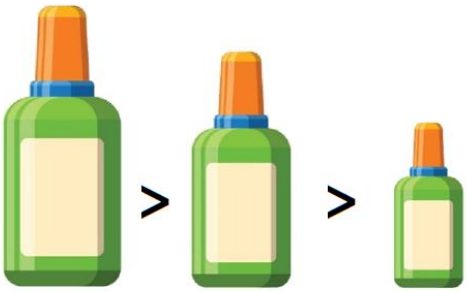
4b. Malia says:




Do you agree with this estimate? Explain why.

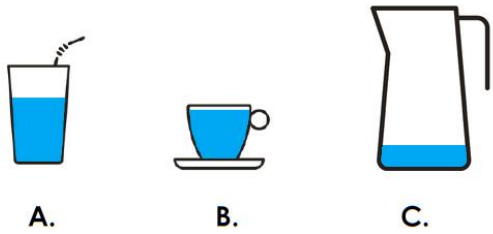
R

5b. Estimate the capacity of the containers to complete the statement. One of the containers has a capacity of 750ml.




PS

6b. Poppy has poured 550ml into each of the containers. She says container C has the least capacity.



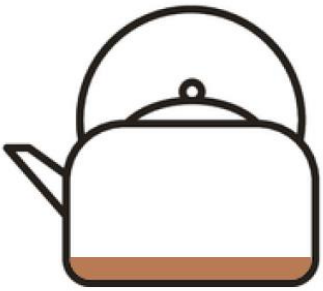

Is this a sensible estimation? Explain your answer.

R

Fluency

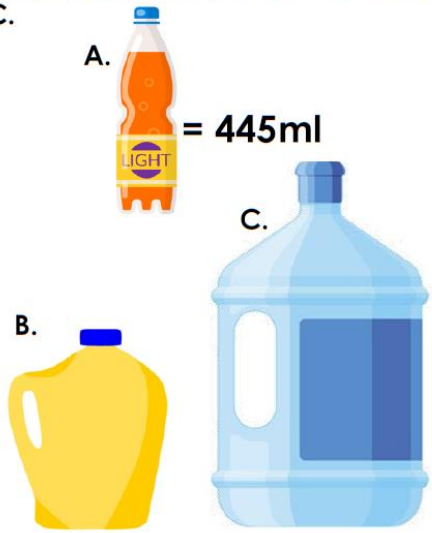
## Estimate Capacity

7a. There is 205ml of tea in this container. Estimate the capacity of the container.



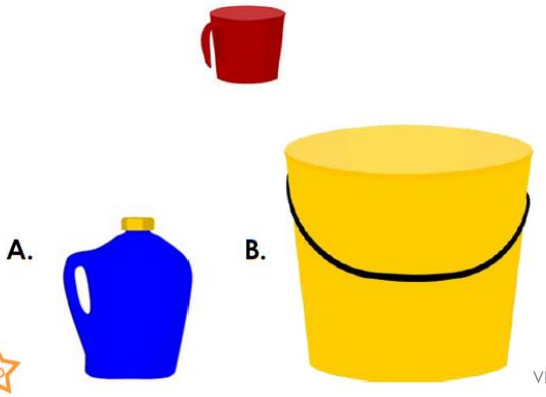
VF

8a. Using the capacity of container A, estimate the capacity of containers B and C.




VF

9a. Estimate how many cups of rice it would take to fill containers A and B.




VF

Reasoning and Problem solving

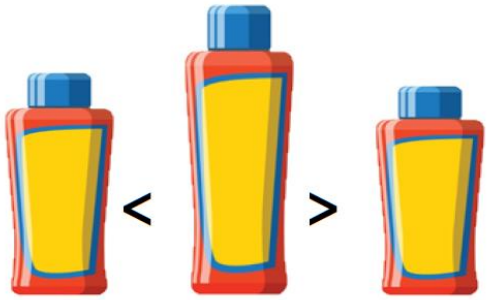
## Estimate Capacity

7b. Maya says:

Do you agree with this estimate? Explain why.

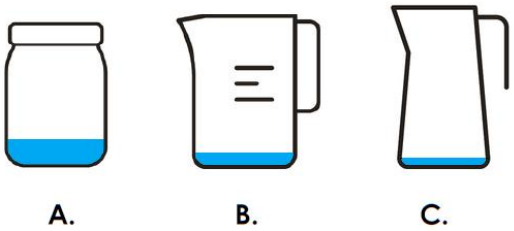
R

8b. Estimate the capacity of the containers to complete the statement. One of the containers has a capacity of 135ml.




PS

9b. Bella has poured 155ml into each of the containers. She says container C has the least capacity.




Is this a sensible estimation? Explain your answer.

R

# Varied Fluency
# Estimate Capacity

## Developing

1a. Various possible answers around 1,000ml.
2a. B: Answers around 100ml; C: answers around 1,200ml.
3a. Various possible answers around 8.

## Expected

4a. Various possible answers around 650ml.
5a. B: Answers around 1,000ml; C: Answers around 4,000ml.
6a. A: Various possible answers around 12; B: Various possible answers around 24.

## Greater Depth

7a. Various possible answers around 1,100ml.
8a. B: Answers around 1,335ml; C: Answers around 4,005ml.
9a. A: Various possible answers around 4; B: Various possible answers around 24.

# Reasoning and Problem Solving
# Estimate Capacity

## Developing

1b. No, because this estimate is too high. The jar is approximately half full. A sensible estimate would be a capacity of around 30 balls.
2b. Various answers, including: A = 200ml; B = 400ml; C = 600ml.
3b. No, container A has the least capacity because the volume appears greater than the other containers.

## Expected

4b. No, because this estimate is too high. The jar is approximately three quarters full. A sensible estimate would be a capacity of around 160 buttons.
5b. Various answers, including: A = 750ml; B = 500ml; C = 150ml.
6b. No, container B has the least capacity because the volume appears greater than the other containers.

## Greater Depth

7b. No, because this estimate is too high. The jar is approximately one third full. A sensible estimate would be a capacity of around 429 jelly beans.
8b. Various answers, including: A = 185ml; B = 235ml; C = 135ml.
9b. No, container A has the least capacity because the volume appears greater than the other containers.