## Varied Fluency <br> Step 4: Estimate Capacity

## National Curriculum Objectives:

Mathematics Year 5: (5M8) Estimate volume [for example, using 1 cm 3 blocks to build cuboids (including cubes)] and capacity [for example, using water]
Mathematics Year 5: (5M9a) Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling

## Differentiation:

Developing Questions to support estimating capacity using the same containers in various sizes and volumes that are all in multiples of 100 ml .
Expected Questions to support estimating capacity using similar containers in various sizes and volumes that are all in multiples of 50 ml .
Greater Depth Questions to support estimating capacity using different containers in various sizes and volumes that are all in multiples of 5 ml .

More Year 5 Volume resources.

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## Developing

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

## Expected

4a. Various possible answers around 650 ml .
5a. B: Answers around $1,000 \mathrm{ml}$; C: Answers around $4,000 \mathrm{ml}$.
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 $4,005 \mathrm{ml}$.
9a. A: Various possible answers around 4; B: Various possible answers around 24.

## Developing

1b. Various possible answers around $1,000 \mathrm{ml}$.
2b. B: Answers around 200 ml ; C: answers around $1,400 \mathrm{ml}$
3b. Various possible answers around 8.

## Expected

4b. Various possible answers around 450ml.
5b. B: Answers around $1,350 \mathrm{ml}$; C: Answers around $4,500 \mathrm{ml}$.
6b. A: Various possible answers around 4;
B: Various possible answers around 18.

## Greater Depth

7b. Various possible answers around 950 ml . (Discussion may arise over the shape of the jug narrowing and how this affects capacity).
8b. B: Answers around 975ml; C: Answers around 650 ml .
9b. A: Various possible answers around 4; B: Various possible answers around 12.

