

Diving into Mastery - Diving

Adult Guidance with Question Prompts

Children develop an understanding of the difference between capacity and volume.

Remind children that the volume is how much is in the container.

Which container is full?

Can you label the bottles to show how full they are?

Can you use the words 'more' and 'less' to make the statements correct?

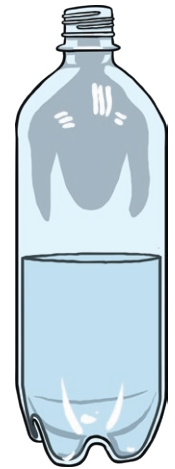
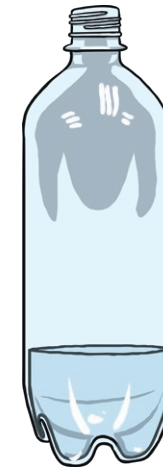
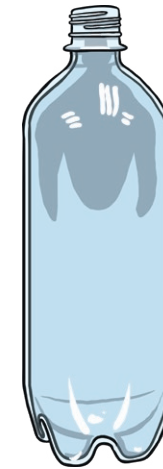
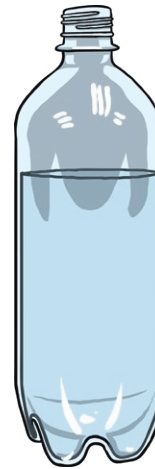
What other statements could you make about the bottles using these words?

Comparing Capacity



Label these bottles to show their volume.

half full	full
quarter full	three-quarters full



Complete these sentences using the words '**more**' and '**less**'.

Container A is _____ full than container D.

Container C is _____ full than container A.

Write your own statements to compare the containers.

Diving into Mastery - Deeper

Adult Guidance with Question Prompts

Children reason about the height and shape of an object and the bearing that it has on the capacity of the object. They will need a selection of containers, some water and a measuring jug. Colouring the water with food colouring can make it easier to read the level in the measuring jug.

Which of these containers is the tallest? Do you think it would hold the most water?

Are there any containers that are the same height? Will they have the same capacity?

Can you find four containers that we could investigate?

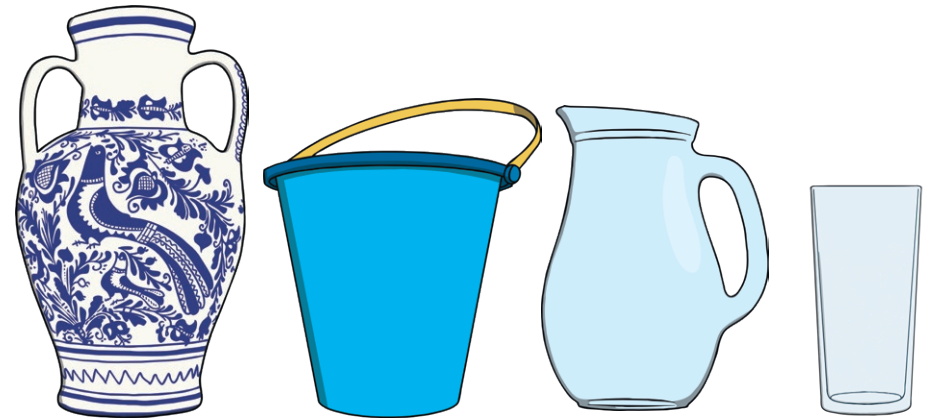
Can you fill the containers and then tip the water into a measuring jug to measure the capacity?

Can you order them from largest to smallest capacity?

Comparing Capacity



Look carefully at the containers.



The tallest container has the largest capacity.

Is this always true, sometimes true or never true?

Explain your answer.

Find 4 containers of different heights and investigate.

Have you changed your mind?

Diving into Mastery - Deepest

Adult Guidance with Question Prompts

Children solve problems involving comparing capacities of containers. They will need a selection of three containers, some water and a cup.

How many bottles does it take to fill one pan?

How many bottles would it take to fill two pans? How do you know?

How many bottles does it take to fill the large pan?

How many bottles would it take to fill it to make it half full?

How many cups does it take to fill your chosen container?

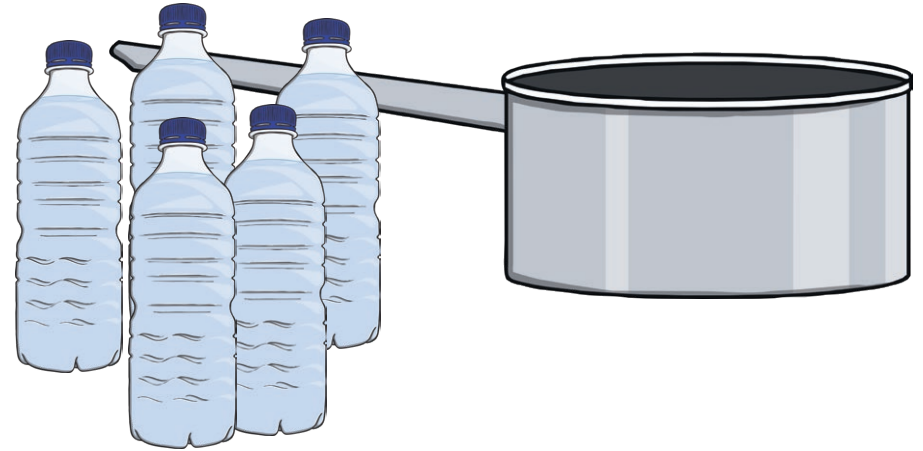
Can you record your result?

Can you order them from largest to smallest capacity?

Comparing Capacity



It takes 5 bottles to fill the pan with water.



How many bottles will it take to fill 2 pans?



This pot is larger than the pan. It takes 3 more bottles to fill it.

How many bottles of water are needed to fill it half-full?

Find 3 different containers. Use a cup to find out how many it takes to fill each one. Order the containers from largest to smallest capacity.