

Rates of flow/work

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Worked example

A person lays 100 bricks in 1 hour.
They always work at the same speed.
How long will it take to lay 340 bricks?

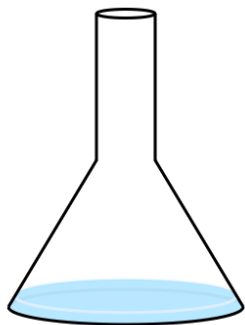
Your turn

A person lays 200 bricks in 1 hour.
They always work at the same speed.
How long will it take to lay 680 bricks?

3 hours 24 minutes

Worked example

Sketch a graph to show how the depth of water in the container changes over time



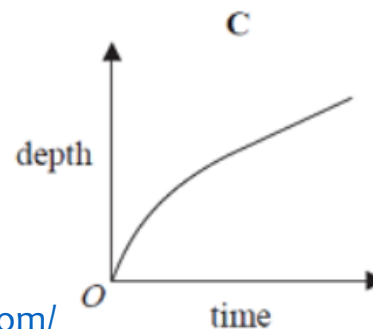
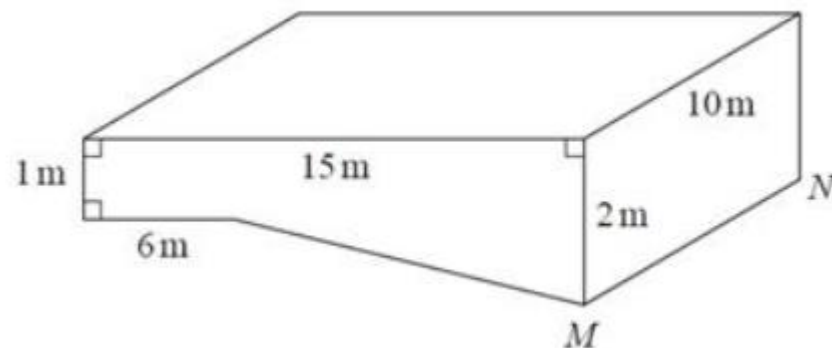
Your turn

The diagram shows a swimming pool in the shape of a prism.

The swimming pool is empty.

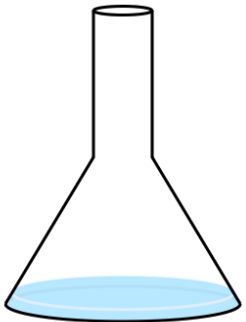
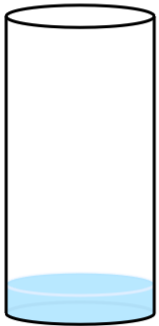
The swimming pool is filled up.

Sketch a graph to show how the depth of the water in the pool above the line MN changes over time, as the pool is filled with water?



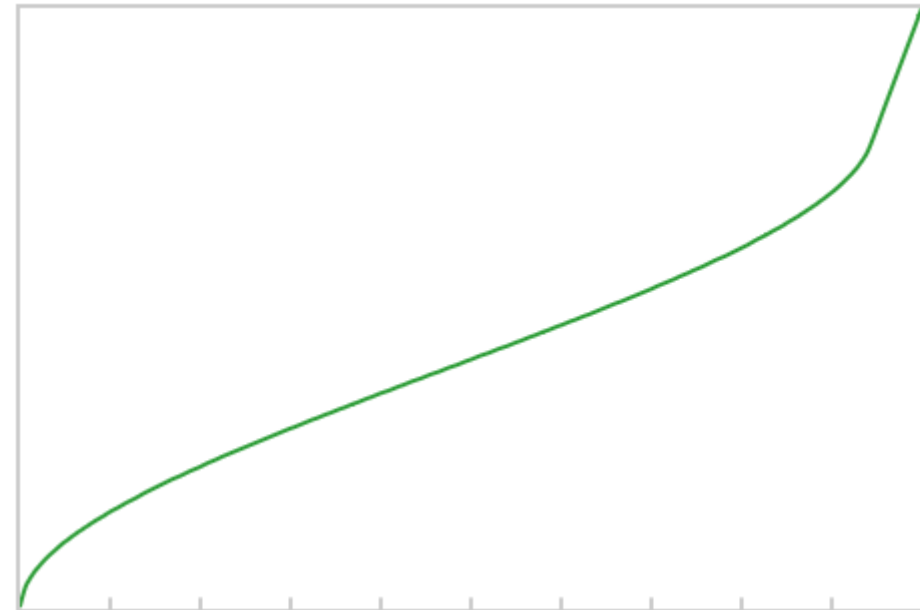
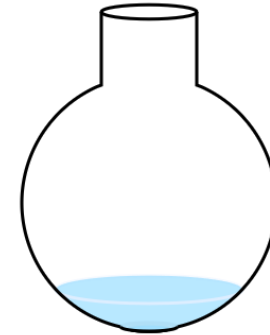
Worked example

Sketch a graph to show how the depth of water in the container changes over time



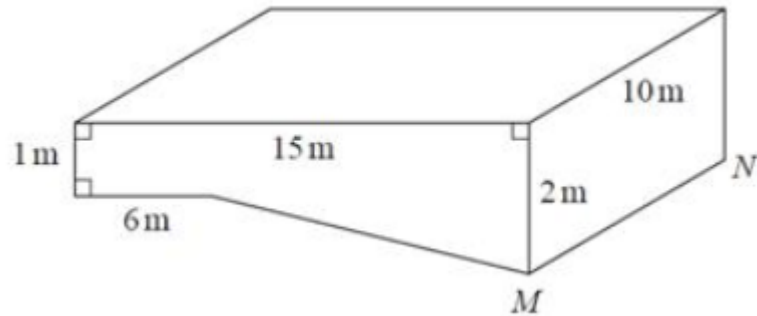
Your turn

Sketch a graph to show how the depth of water in the container changes over time



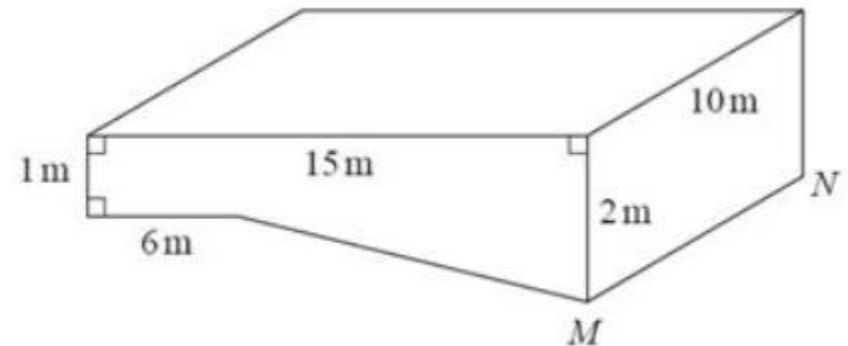
Worked example

The swimming pool is empty.
It is filled with water at a constant rate of 20 litres per minute. How long will it take for the pool to be half-full of water?



Your turn

The swimming pool is empty.
It is filled with water at a constant rate of 50 litres per minute. How long will it take for the pool to be completely full of water?



65 hours