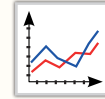


# Water Levels

## ANSWERS


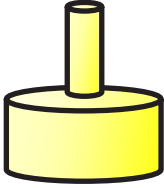
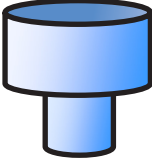


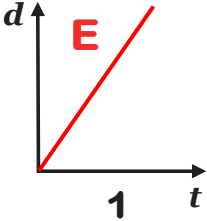
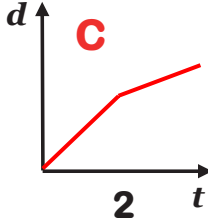
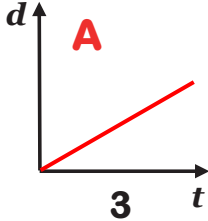
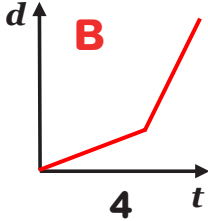
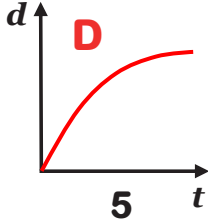


Liquid is poured into containers at a constant rate.

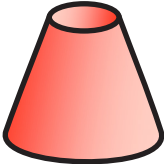

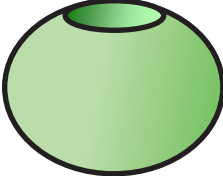
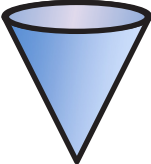
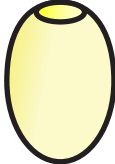
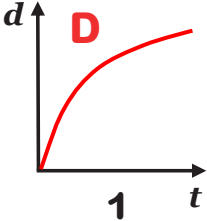
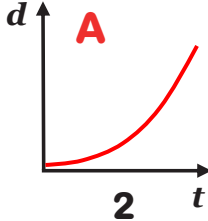
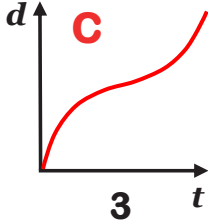
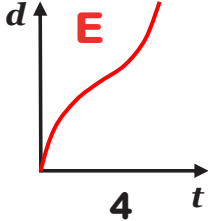
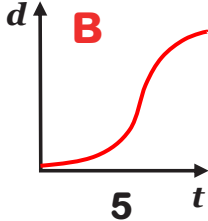
The depth of the liquid in the container  $d$  is plotted against time  $t$  for each container as it is filled.

### Section A Match the containers with their graphs.

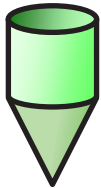
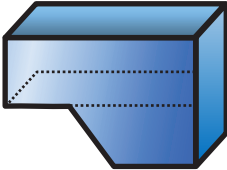

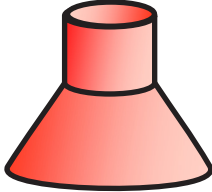
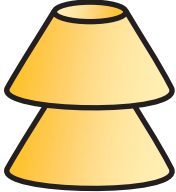
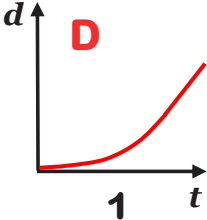
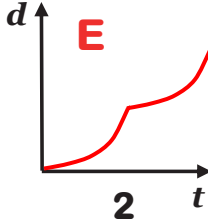
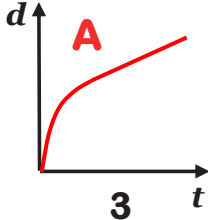
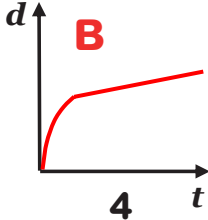
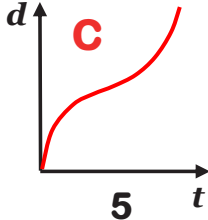
1)

				
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
				
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

2)

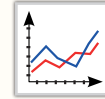
				
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
				
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

3)

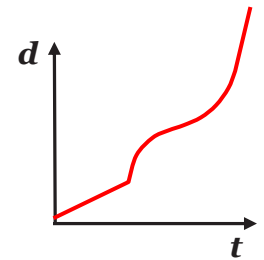
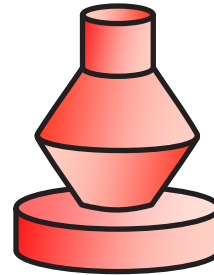
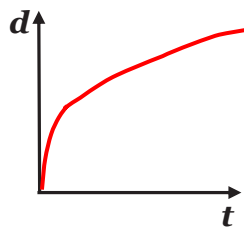
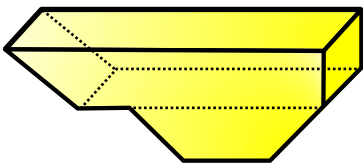
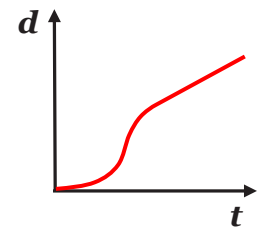
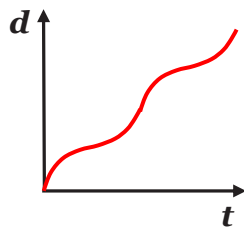
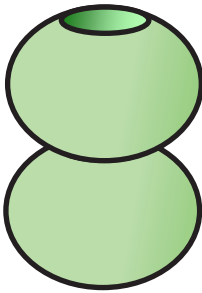
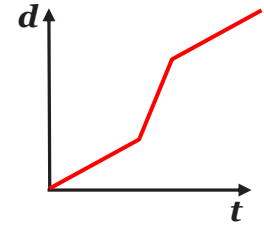
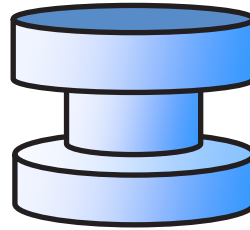
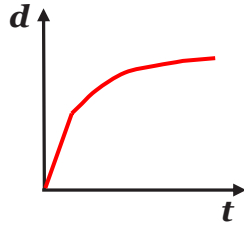
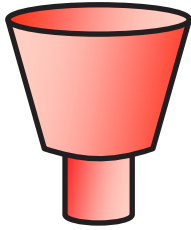
				
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
				
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

# Water Levels

## ANSWERS



**Section B** For each set of containers draw the depth of the liquid  $d$  against the time  $t$ .



### Section C

Two swimming pools are being filled at a constant rate. Sketch the cross-section of each swimming pool that have these graphs showing how the depth  $d$  of water varies with time  $t$ .

