

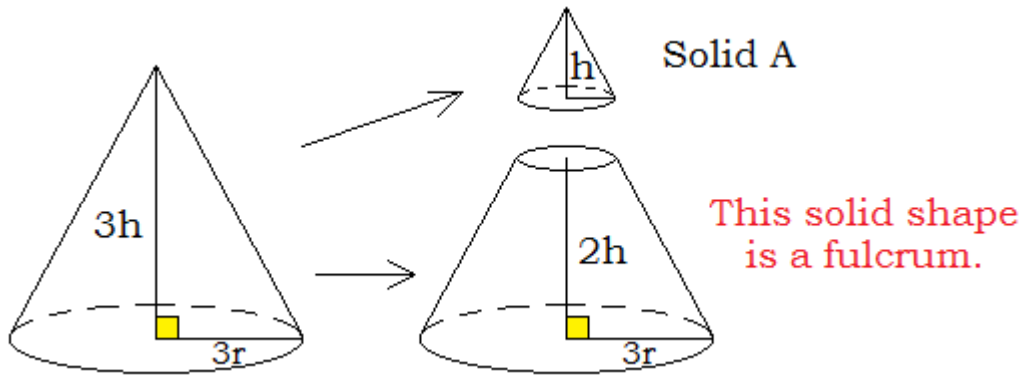
# Princess Vulnavia presents ... Cloud 9; Revision Raindrops

## Volume of a Solid

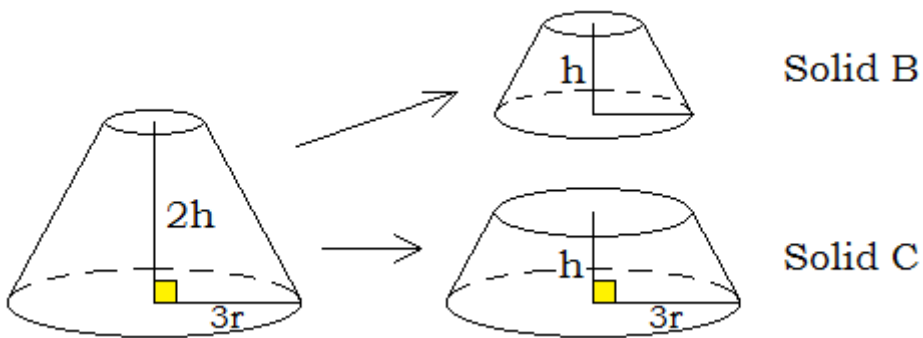
### Raindrop 5c

A solid cone of perpendicular height  $3h$  and base radius  $3r$  is cut into three parts as follows.

Firstly, a cone of perpendicular height  $h$  and base radius  $r$  is cut off the top of cone.



Then a cut is made a right-angles to the axis of the fulcrum so that the perpendicular height of each solid is  $h$ .



Find, in its simplest form;

volume of shape A : volume of shape B : volume of shape C

The answer follows on the next page ...

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Answer:      volume of shape A : volume of shape B : volume of shape C

=            1            :            7            :            19