<table>
<tr><td>10</td><td>(volume of water =) $9\times35\times28(=8820)$<br>or (total volume of cuboid =) $20\times35\times28(=19600)$<br>or (volume of space =) $(20-9)\times35\times28(=10780)$</td><td></td><td>3</td><td>M1</td><td>for a method to find a relevant volume for the cuboid</td></tr>
<tr><td></td><td>$\pi\times10^2\times33$ $(=3300\pi$ or $10367(.25...))$ oe</td><td></td><td></td><td>M1</td><td>(indep) for a method to find the volume of the cylinder, accept a volume in the range 10362 to 10368.6<br>Allow 3.14… or $\frac{22}{7}$ for $\pi$</td></tr>
<tr><td></td><td>(total volume of water =) “8820” + “10367(.25...)” (= 19187(.25...))<br>(difference between volumes of both solids =)<br>“19600” − “10367(.25…)”(= 9232(.74…))<br>(volume not filled =) “19600” – “8820” – “10367(.25…)”<br>(=412(.74…))<br><br>Working required</td><td>Shown</td><td></td><td>A1</td><td>correct workings with accurate figures<br>eg<br><table><tr><td>Value 1</td><td>Value 2</td></tr><tr><td>10780</td><td>10367(.25…)<br>accept 10362 to 10372</td></tr><tr><td>19600</td><td>19187(.25…)<br>accept 19182 to 19192</td></tr><tr><td>8820</td><td>9232(.74…)<br>accept 9228 to 9238</td></tr><tr><td>412(.74…) or 413<br>accept 408 to 418</td><td>none needed</td></tr></table></td></tr>
<tr><td></td><td></td><td></td><td></td><td colspan="2">Total 3 marks</td></tr>
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