



Suggested Answers to 10 May 2018 IGCSE 0625 Physics Paper 62

Question	Answer														
1	Diameter of top of cup = 7.2 cm Diameter of bottom of cup = 4.8 cm Height of cup = 7.8 cm Average diameter of cup = 6 cm Volume of cup = 220.43 cm <sup>3</sup> Density of water = 1.05 g/cm <sup>3</sup>														
2	Room Temperature = 23 °C  <table border="1" data-bbox="328 745 791 1016"> <thead> <tr> <th>Time / s</th> <th><math>\theta</math> / °C</th> </tr> </thead> <tbody> <tr> <td>0</td> <td></td> </tr> <tr> <td>30</td> <td></td> </tr> <tr> <td>60</td> <td></td> </tr> <tr> <td>90</td> <td></td> </tr> <tr> <td>120</td> <td></td> </tr> <tr> <td>150</td> <td></td> </tr> </tbody> </table>	Time / s	$\theta$ / °C	0		30		60		90		120		150	
Time / s	$\theta$ / °C														
0															
30															
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90															
120															
150															
3	$v = 5.8$ cm Actual size = $5 \times 5.8$ cm = 29 cm $f_1 = 11.84$ cm $f = 12.0$ cm														