## Year 11 Physics Assignment Units and Significant Figures 2

1.	<ul> <li>State the number of significant figures in the quart</li> <li>(a) 1.5</li> <li>(b) 6.125</li> <li>(c) 23.80</li> <li>(d) 0.0052</li> <li>(e) 8.01</li> </ul>	itities below	/1 /1 /1 /1 /1
2.	State why 0.047 has 2 significant figures even though there are four digits.		/1
3.	If a calculation involves dividing 1.1 by 0.0312, explain why 35.3 is not an appropriate answer. <i>Ignore units for this question.</i>		/2
4.	If a calculation involves adding 1.1 to 0.0312, explain why 1.1312 is not an appropriate answer Ignore units for this question.		/2
5.	Show why multiplying a speed (in m s <sup>-1</sup> ) by a time (in s) gives a distance (in m).		/1
6.	Write the answer to these calculations, using correct s.f. (significant figures) and units.		
	(a) 0.010 N multiplied by 52 s	(b) 13.5 N plus 6 N	
	(c) 72 N divided by 113 kg	(d) 10.31 kg plus 121 kg	
	(e) 312 kg multiplied by 14 m s <sup>-1</sup>	(f) 2034 m s <sup>-1</sup> plus 1150 m s <sup>-1</sup>	
	(g) 630.5 N minus 36.5 N	(h) 240 m multiplied by 0.03 m	

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