Homework Answers Hill-Petrucci Pages 29-33 #50,52,54,56,58,83,90,91,105

50.	a.4	b.3	c.3	d.3	e.3	f.3				
52.	a. 8.352 x 10 ³ m			b. 3.00	00 x 10 ² s		c. 8.85 x 10 ⁻² cm		d. 1.222 x 10 ² s	
54.	 a. 318000m zeros not significant b. 750. mL zero is significant c. 0.00041s d. 92000m the last zero is not significant - it is best to report this in scientific notat 								ation	
56.	a10.	0.6 cm b. 1.0745 kg – when adding or subtracting all units must be identica								
58.	a. 1.88	3 mm ³	b. 3.5	x 10⁻⁴ cn	n²	c7.9 x	10 ⁻³ °C/s	d. 2.2 x	10 ⁻⁴ mg/cm ³	
83.	2.36 x 10 ⁵ nails									
90.	a. 5.178 ±0.008m b. area = 1.39 m ² , % error = 0.3% absolute error = 0.004 m ² c. absolute error occurs in the fourth sig. fig The rules we learned would only allow 3.									

91. All balances are acceptable - volume is the limiting measurement.