1.10 (a) [illegible] three sig figs

(b) Also three sig figs

(c) $d = \frac{gt^2}{2} = \frac{(9.8\ m/s^2)(2.0165\ s)^2}{2} = 19.9\ m.$

Chapter 2

2.5

	isotope	# protons = Z	# neutron = mass number − Z
(a)	^{9}Be	4	5
	^{10}Be	4	6
(b)	^{12}C	6	6
	^{13}C	6	7
(c)	^{14}N	7	7
	^{15}N	7	8
(d)	^{16}O	8	8
	^{17}O	8	9

2.9

	element/ion	Z	q	$N_e = Z - q$
(a)	Li	3	0	3
	Li^+	3	+1	2
	He	2	0	2
(b)	K	19	0	19
	K^+	19	+1	18
	Ar	18	0	18
(c)	Cs	55	0	55
	Cs^+	55	+1	54
	Xe	54	0	54
(d)	Mg	12	0	12
	Mg^{2+}	12	+2	10
	Ne	10	0	10