

Directions – Complete chart for the appropriate problems.

	Regression Equation Using Appropriate Model	Correlation Coefficient r	Questions	
			a.)	b.)
1.)	$y = 3.5x + 40$	$r = 1$	\$117	31.4 tablets
2.)	$y = 7.7315(x)^{.2061}$	$r = .9708$	21.4 years	24.9 kg
3.)	$y = 65000(6.2017)^x$	$r = 1$	1868	about 596 million
4.)	$y = .0273x - (4.8387 \times 10^{-4})$	$r = .9975$.16 blood alcohol content	11 drinks
5.)	$y = 78.8422 - 10.3234 \ln x$	$r = -.9878$	1977	about 30 offices
6.)	$y = -15.824x^2 + 62.902x - 983$	$r^2 = .99846$ $\rightarrow r = .9992$	about 4 seconds	about 61.5 ft
7.)	$y = 497.1326(1.2587)^x$	$r = .9498$	2005	156381
8.)	$y = -2078.319 + 2158.16 \ln x$	$r = .9869$	\$6364.45	106.7 petabyte
9.)	$y = 1.08x - 2125$	$r = .9781$	about 51	2037
10.)	$y = 171.462(.988)^x$	$r = -.9850$	about 59°F	8.5 minutes