Chapter 8 Interval Estimation





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Example: Apartment Rents													
	At 95% confidence, 1 - α = .95, α = .05, and $\alpha/2$ = .025.												
	$t_{.025}$ is based on $n - 1 = 10 - 1 = 9$ degrees of freedom. In the <i>t</i> distribution table we see that $t_{.025} = 2.262$.												
		Degrees Area in Upper Tail											
		of Freedom	.10	.05	0.025	.01	.005						
		7	1.415	1.895	2.365	2.998	3.499						
		8	1.397	1.860	2.306	2.896	3.355						
		9	1.383	1.833	2.262	2.821	3.250						
		10	1.372	1.812	2.228	2.764	3.169						









	Using the t table to find \mathbf{z} values									
	Degrees _		Area in Upper Tail							
	of Freedom	.10	.05	0.025	.01	.005				
2-3										
	30	1.310	1.697	2.042	2.457	2.750				
	40	1.303	1.684	2.021	2.423	2.704				
	60	1.296	1.671	2.000	2.390	2.660				
	120	1.289	1.658	1.980	2.358	2.617				
- 0	infinity	1.282	1.645	1.960	2.326	2.576				



























