Name:			Statistics		
Date:					Practice Quiz 8-D
1. State the o	critical value(s)	for the following $\chi^2$ te	sts of a single variar	nce with a sample	e size of 20.
For df =	in the	column, $\chi^2_{\odot}$ =			
b) left-tailed					
For df =	in the	column, X <sup>2</sup> =			
c) two-tailed					
For df =	, in the	column, $\chi^2_0$ =	, and in the	column, $\chi^2_{\text{O}}$ =	
the average the new load a) How many de df =	wheat shipmeder has the following grees of freedom and the second	nt was 800 kg, with sta owing weights, in kg: 8 re there? —	ndard deviation 15.5	5 kg. A random sa	the old one. Previously, ample of shipments with 0, 794, and 804, and 799.
	critical values for a t		te d		
For at =	, in the	column, $\chi^2_0 =$	, and in the	column, X <sup>2</sup> <sub>0</sub> =	·
All $\chi^2$ curves start a	at $\chi^2 = $ , because $\chi^2 = $ , because $\chi^2 = $ , which in the state of $\chi^2 = $	k of the curve and the critical se squares cannot be negative. nis case is $\chi^2 = \underline{\hspace{1cm}}$ .	value, and shade the critic	al region.	Sketch
d) Calculate $\chi^2$ for	or the standard devi	ation, and mark it on the curv	ve.		
The population varia	nce being tested is $\sigma^2$ =	2 =	<del>.</del>		
The calculated samp	ole variance is s² =	2 =			
There are	degrees of fre	edom.			
χ² =	(	)=			
e) Are the data s	tatistically significa	nt?			
	, because the calcu	ated value of $\chi^2$ is	than	<del>.</del>	
f) State the conc	lusion, followed by	$\chi^2(df)$ and a range for $p$ .			
The standard deviati	ion of shipment weights	with the new loader is	than 15.5 kg, χ²(	) =	, p05.
g) What would t	he conclusion have	been if the answer to (d) had	been $\chi^2 = 24.04$ ?		
The standard deviati	ion of shipment weights	with the new loader is	than 15.5 kg, χ²(	) =	, p05.
h) What would t	he conclusion have	been if the answer to (d) had	been $\chi^2 = 14.04$ ?		
				, $\chi^2$ () =	=,p05.