Introduction to Telescopes Pre-lab

1.	Read t	hrough the "Properties of a Telescope" section of the lab and answer these questions:
	i.	How would the field of view of a telescope change if you were to switch from a 15-mm eyepiece to a 45-mm eyepiece? Would the field of view become larger or smaller? By how much? Explain your answer and SHOW YOUR WORK.
	ii.	Which telescope has greater <i>light gathering power</i> : a 8-inch telescope or your unaided eye? Assume the pupil diameter of a dark-adapted eye is 1/5 inch. How much greater? SHOW YOUR WORK.
	iii.	What is the magnifying power of a 8-inch Celestron telescope when used with a 20-mm eyepiece? SHOW YOUR WORK.
	iv.	What is the smallest telescope that can be used to resolve the double star δ Cyg, where the two stars are 2.6" (arcseconds) apart? SHOW YOUR WORK.