

Name: _____

Variable Stars in M15

Plate Number	Mid-Exposure Time	Magnitude					
		Star A	Star B	Star C	Star D	Star E	Star F
465	0.174						
468	0.228			15.3			
470	0.279						
472	0.332						
475	0.381						
477	0.409						
479	0.449						
481	0.478						

Mean Magnitude						
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Average of mean magnitudes: $m =$ _____

Using a value of $M = +0.5$ for the average absolute magnitude of RR Lyrae stars, the distance in parsecs to M15 can be found with the distance modulus formula

$$M = m + 5 \log d .$$

$d =$ _____ pc _____ light-years