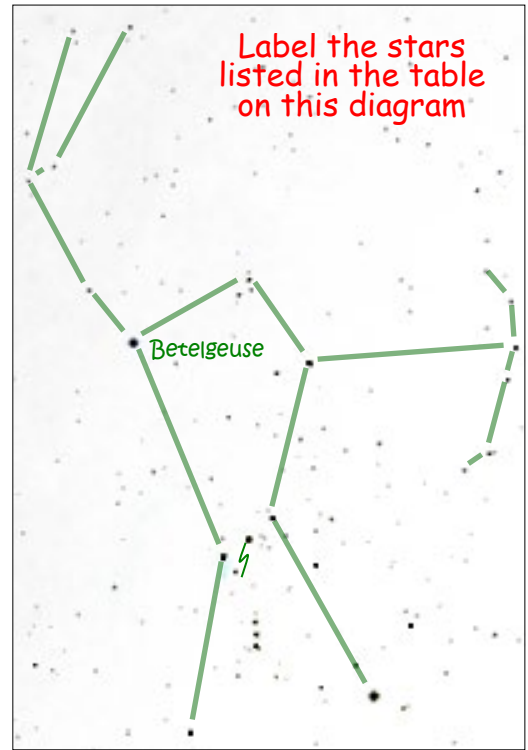
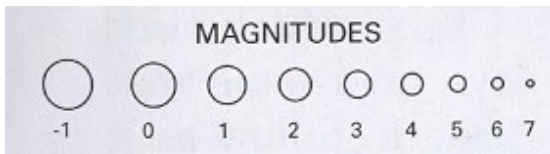


## STAR DISTANCES AND MAGNITUDES

For the stars in Orion listed below, **complete the table and label the diagram** with "other" star names listed in the table (looking south from SLU at 9 pm on January 25) by using Appendix 2 and Atlas Chart 24 in the Field Guide.<sup>31</sup>

ApX. 2 in order of RA

BAYER DESIGNATION	RA	VISUAL MAGNITUDE (V)	ABSOLUTE MAGNITUDE (M <sub>v</sub> )	DISTANCE (ly)	OTHER NAME
α Ori	5 <sup>h</sup> 51 <sup>m</sup>	0.5	-5.0	522	Betelgeuse
β Ori	5 <sup>h</sup> 15 <sup>m</sup>				
γ Ori	5 <sup>h</sup> 25 <sup>m</sup>				
κ Ori	5 <sup>h</sup> 48 <sup>m</sup>				
δ Ori	5 <sup>h</sup> 32 <sup>m</sup>				
ε Ori	5 <sup>h</sup> 36 <sup>m</sup>				
ζ Ori	5 <sup>h</sup> 41 <sup>m</sup>				



List the stars in the above table in order of distance from the sun. (use the Bayer Designation ... both Greek letter and Constellation abbreviation).<sup>8</sup>

<b>NEAREST</b>							<b>FARTHEST</b>
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List the stars in the above table in order of increasing brightness as seen in the sky.<sup>8</sup>

<b>BRIGHTEST</b>							<b>DIMMEST</b>
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List the stars in the above table in order of increasing brightness if they were all at the same distance (eg. 32.6 ly).<sup>8</sup>

<b>BRIGHTEST</b>							<b>DIMMEST</b>
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What do apparent and absolute magnitudes of two different stars tell you about those stars?<sup>4</sup>