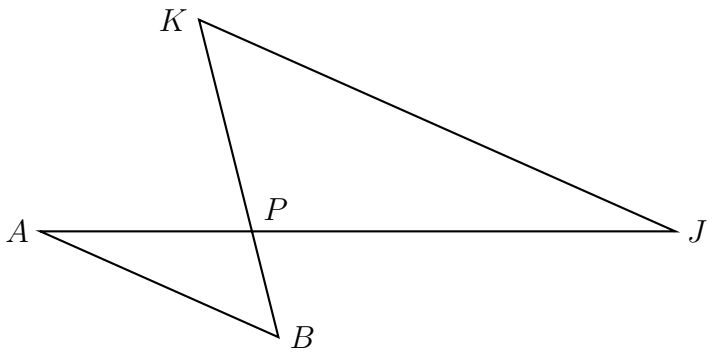
Do Now: Similar triangles, dilation ratios

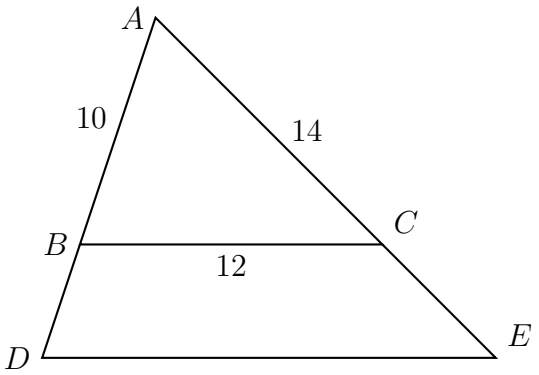
1. Given $\triangle ABP$ and $\triangle JKP$ as shown below. $\overline{AB} \parallel \overline{JK}$. Prove $\triangle ABP \sim \triangle JKP$.



Statement	Reason
1) $\triangle ABP$, $\triangle JKP$	1) Given
2) _____	2) Given
3) $\angle APB \cong \angle JPK$	3) _____
4) $\angle PAB \cong \angle PJK$	4) _____
5) $\triangle ABP \sim \triangle JKP$	5) _____

2. Triangle ABC is dilated with a factor of $\frac{3}{2}$ centered at A, yielding $\triangle ADE$, as shown. Given $AB = 10$, $BC = 12$, and $AC = 14$.

   Find AD, AE, and DE.



3. Early finishers: Triangle ADE is drawn with $\overline{BC} \parallel \overline{DE}$, as shown. Given $AB = 5$, $BC = 7$, $AC = 8$, and $BD = 5$.

   Find CE, AE, and DE.