Give the factor by which each pre-image was multiplied to create the image. Use the scale factor
to fill in any missing side lengths.

| 6. |  |
| :---: | :---: |
| For each scenario, determine where the center of dilation would be. |  |
| 7. Fran walks backward to a distance that will allow her family to all show up in the photo she is about to take. | 8. The theatre technician plays with the zoom in and out buttons in effort to fill the entire movie screen with the image. |
| 9. A digital animator creates artistic works on her computer. She is currently doing an animation that has several telephone poles along a street that goes off into the distance. | 10. A copy machine is set at $300 \%$ for making a photo copy. |

Answers:

1. S.F. $=2$
2. S.F. $=5$
3. $S . F .=\frac{1}{4}$
side lengths: 10,17.5
4. Center of dilation : middle of her family
5. S.F. $=3$
6. Center of dilation: end of street in the dis $\tan$ ce
