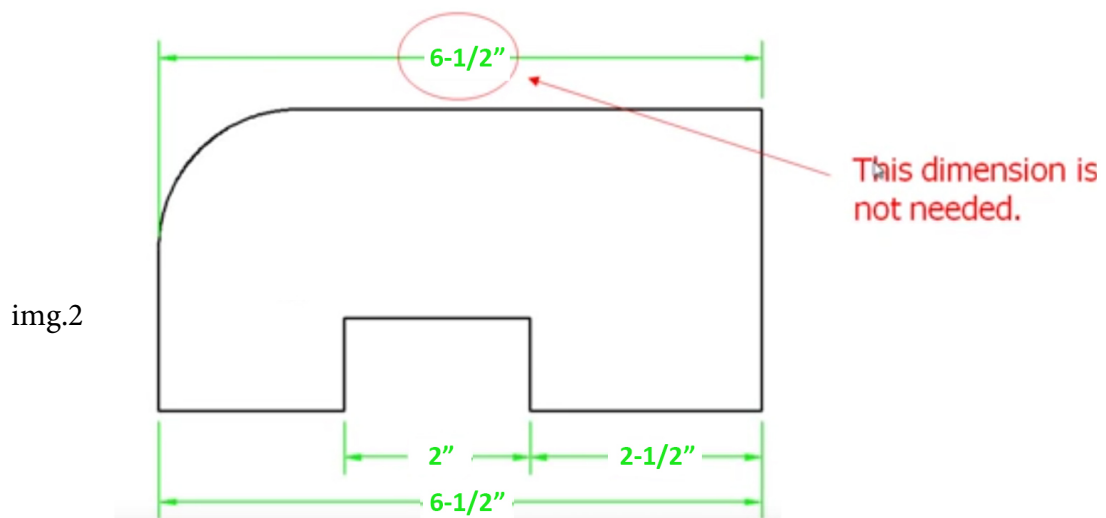
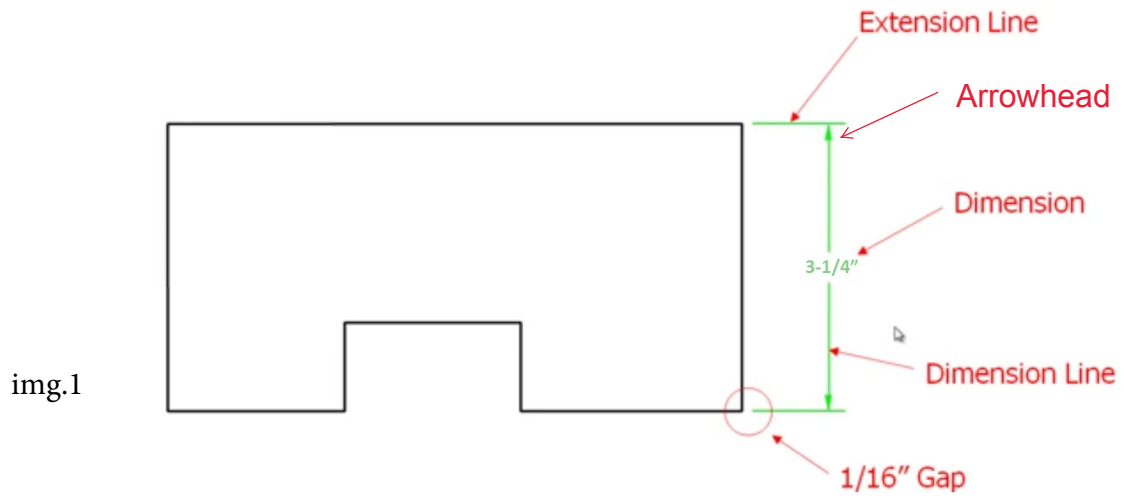


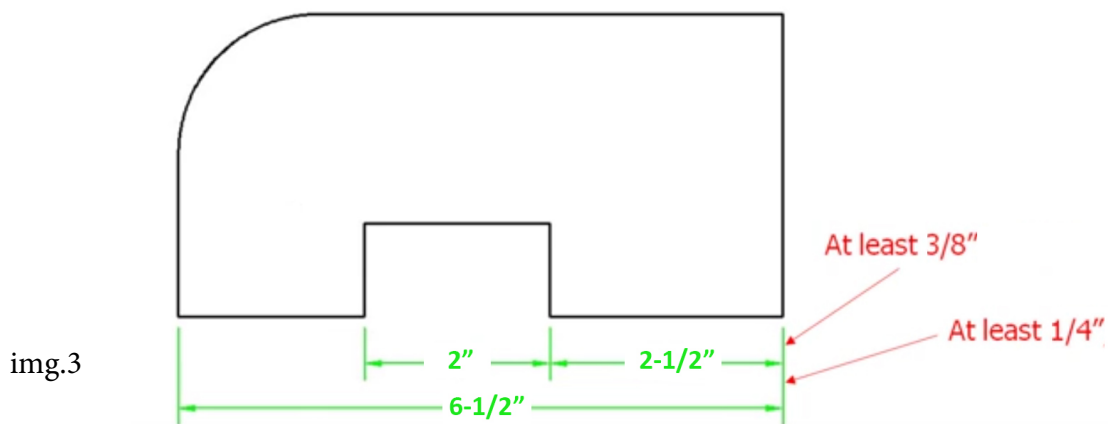
General rules for dimensioning multiview drawings

ARCH 1112, Fall 2017, Prof. Tsachrelia

1. Understand the parts: Extension line, dimension line and dimension (see img.1)
2. Use fractional dimensions (e.g. 1-1/4", not 1.25")
3. Dimensions should NOT be duplicated, or the same information be given in two different ways. (img. 2)
4. No unnecessary dimensions should be used - only those needed to produce the part.
5. Dimensions should be placed at finished surfaces.
6. Dimensions should be placed so that it is not necessary for the observer to calculate, scale, or assume any measurement.
7. Dimensions should be attached to the view that best shows the shape of the feature to be dimensioned.
8. Avoid dimensioning to hidden lines.
9. Dimensions should not be placed on the object.
10. Overall dimensions should be placed the greatest distance away from the object so that intermediate dimension can nest closer to the object to avoid crossing extension lines.
11. A dimension should be attached to only one view (i.e., extension lines should not connect two views).
12. Never cross dimension lines.
13. Never cross extension lines.
14. Dimension numbers should be centered between arrowheads.
15. In general, a circle is dimensioned by its diameter, an arc by its radius.
16. Extension lines start approximately 1/16" from the object and extend 1/8" past the last dimension.
17. The first dimension is approximately 1/2" from the object and spaced uniformly approximately 1/4" apart. (img. 3)
18. Always dimension the actual size of the object - not the scaled size.



Dimensions that are not needed should not be given.



Dimension lines must be kept at least 3/8" from the object, and at least 1/4" from each other.