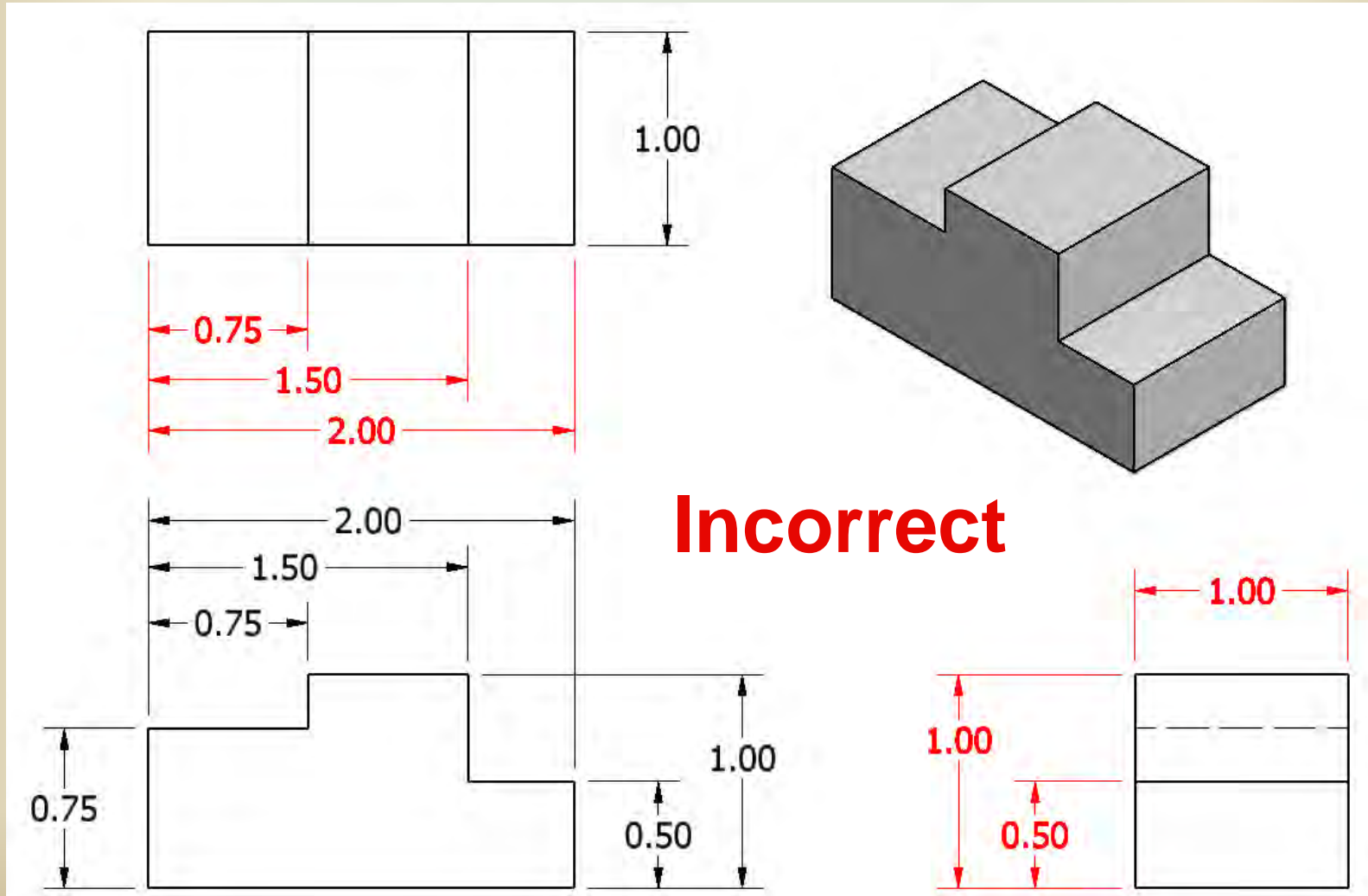


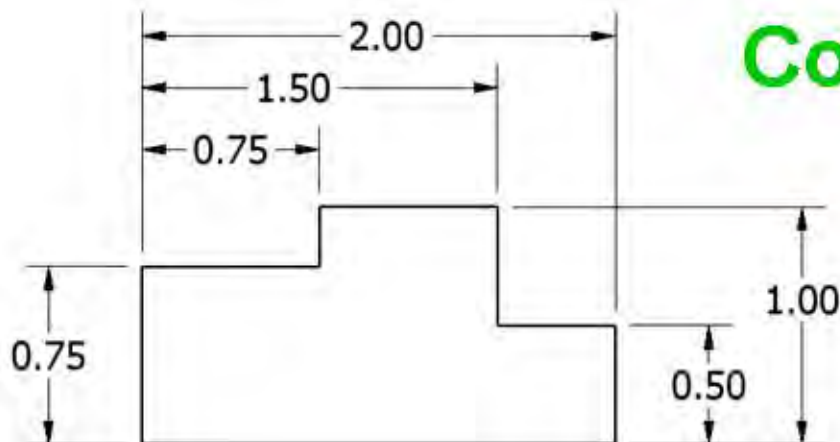
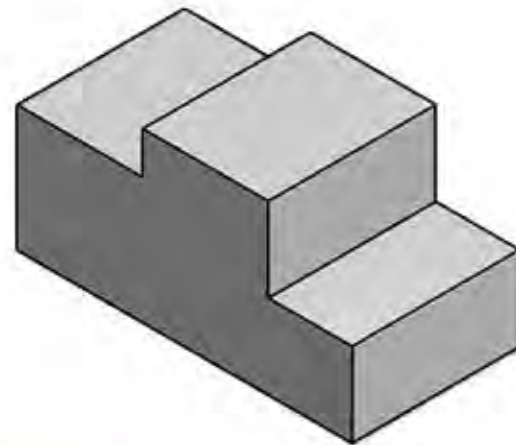
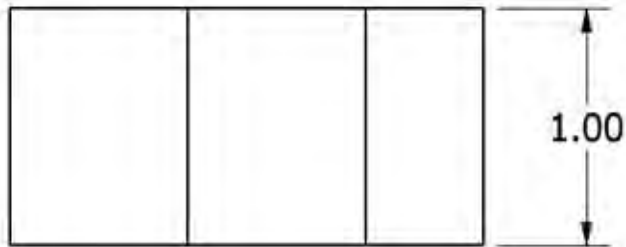
Dimension Guidelines



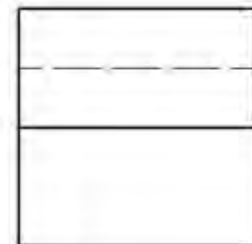
1. Dimensions should NOT be duplicated, or the same information given in two different ways.



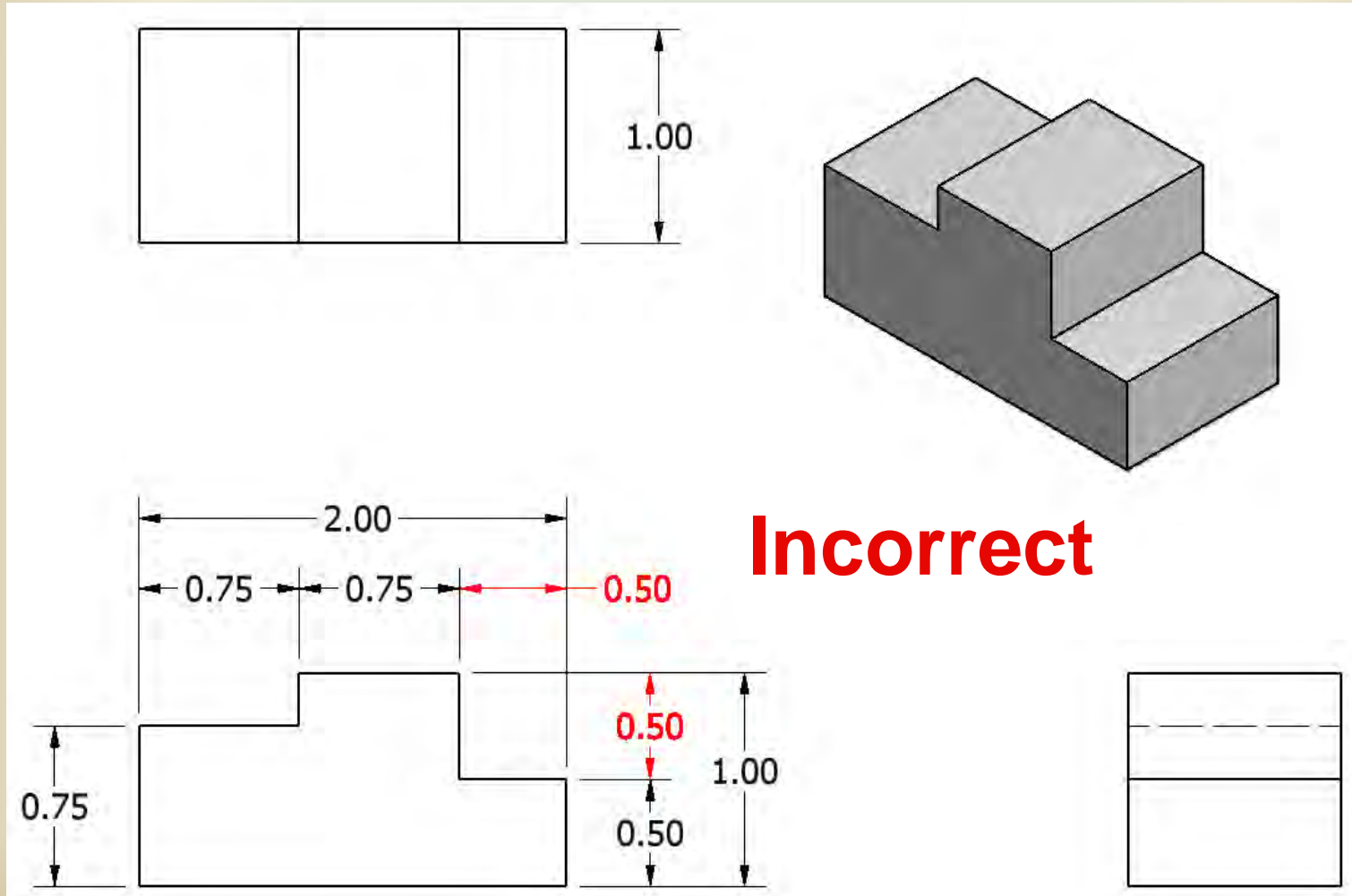
1. Dimensions should NOT be duplicated, or the same information given in two different ways.



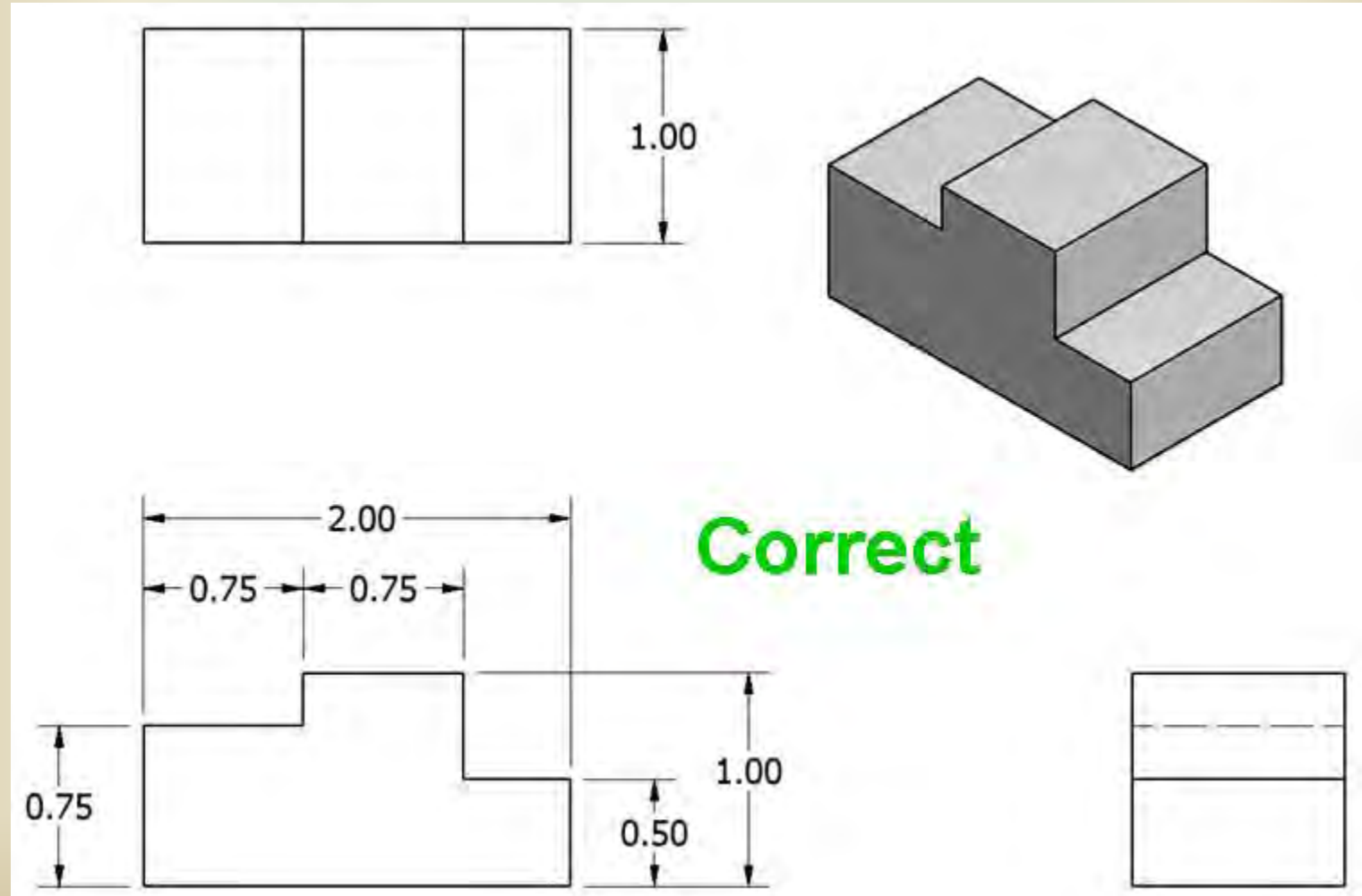
Correct



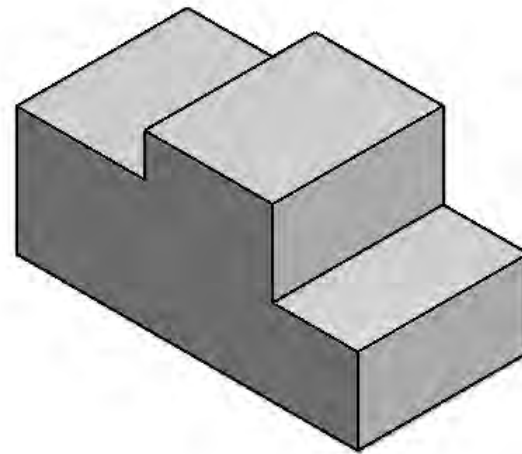
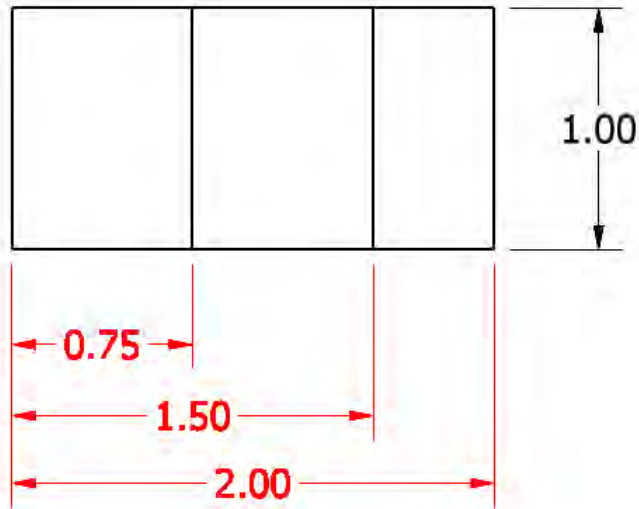
2. No unnecessary dimensions should be used – only those needed to produce or inspect the part.



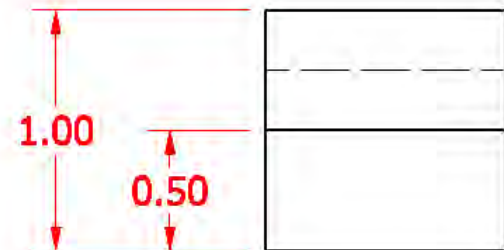
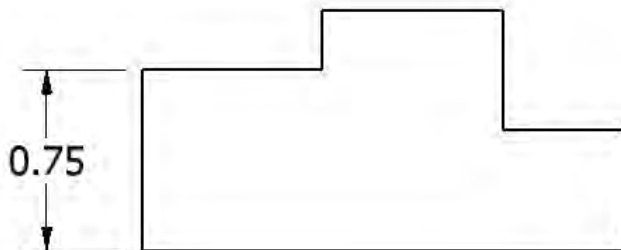
2. No unnecessary dimensions should be used – only those needed to produce or inspect the part.



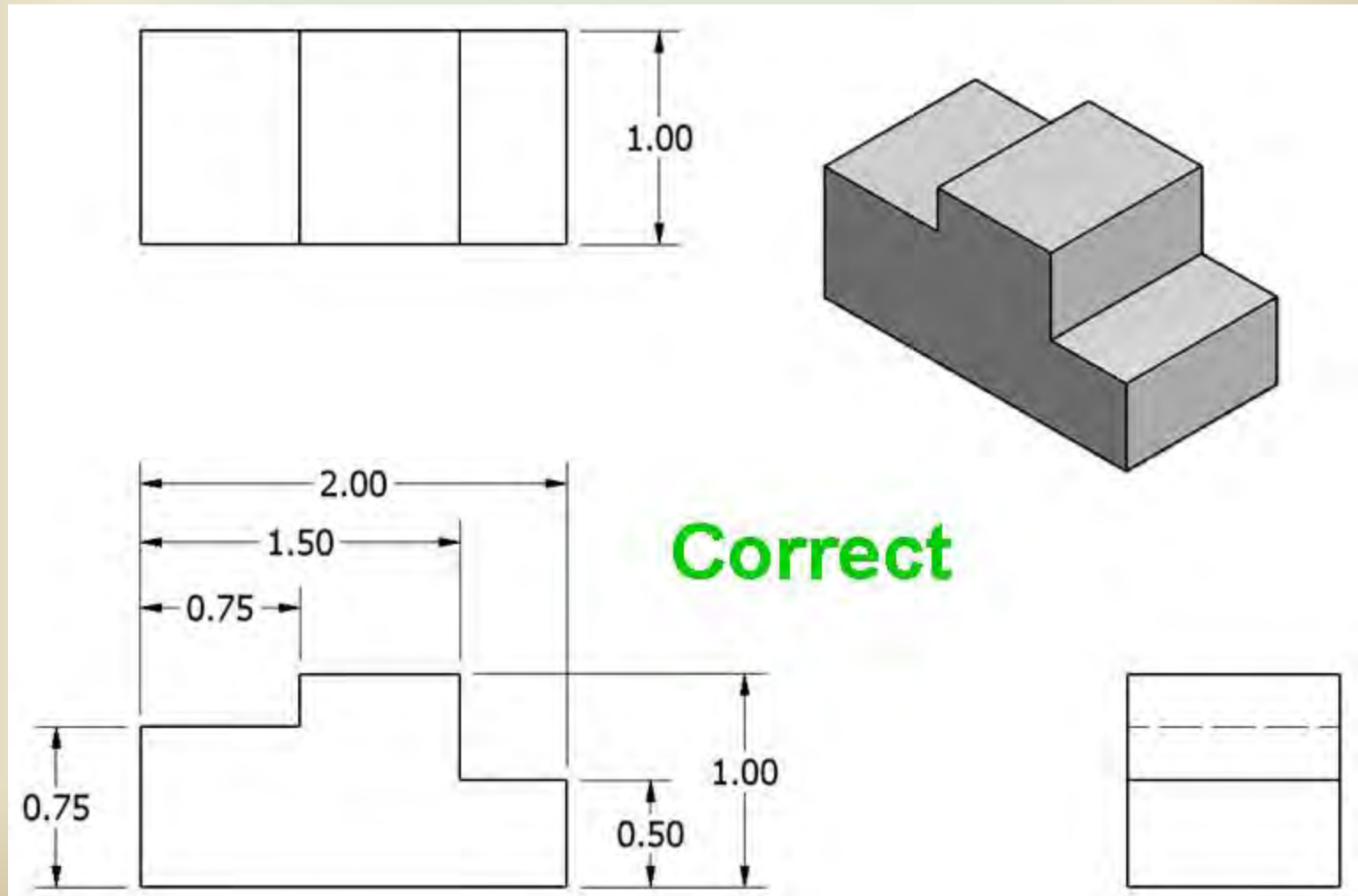
3. Dimensions should be attached to the view that best shows the ***contour*** of the feature to be dimensioned.



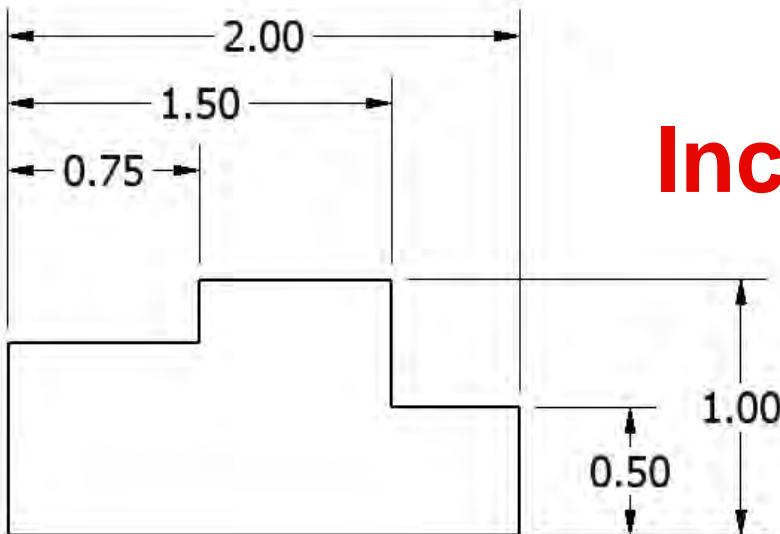
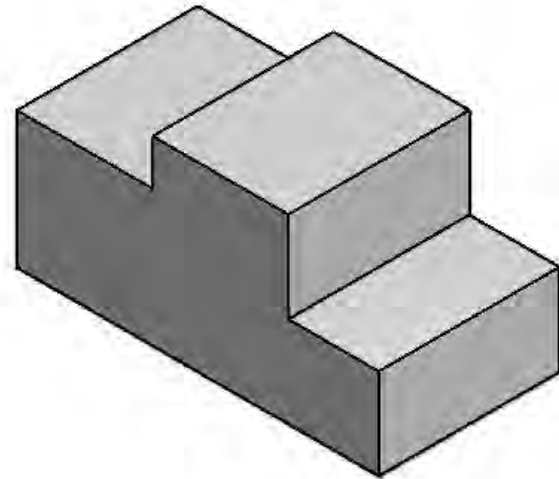
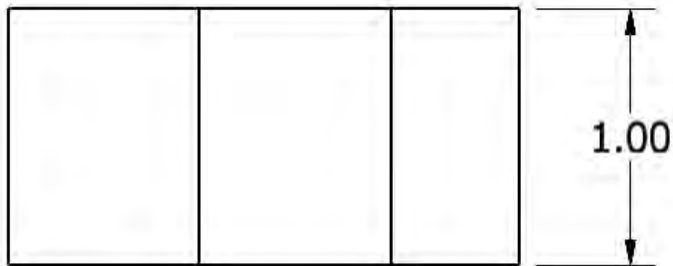
Incorrect



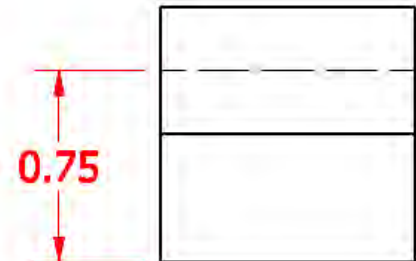
3. Dimensions should be attached to the view that best shows the ***contour*** of the feature to be dimensioned.



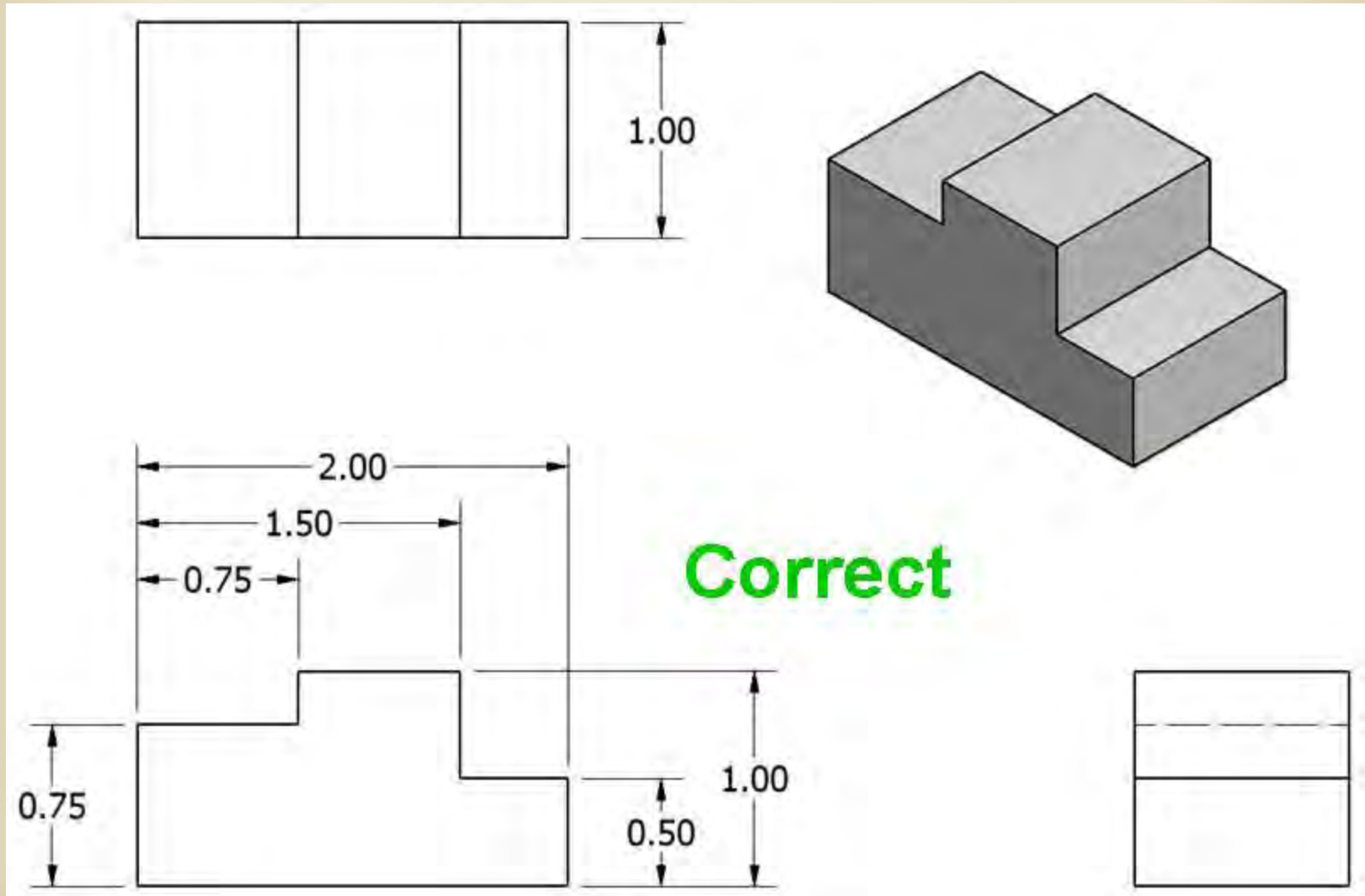
4. Whenever possible, avoid dimensioning to hidden lines and features.



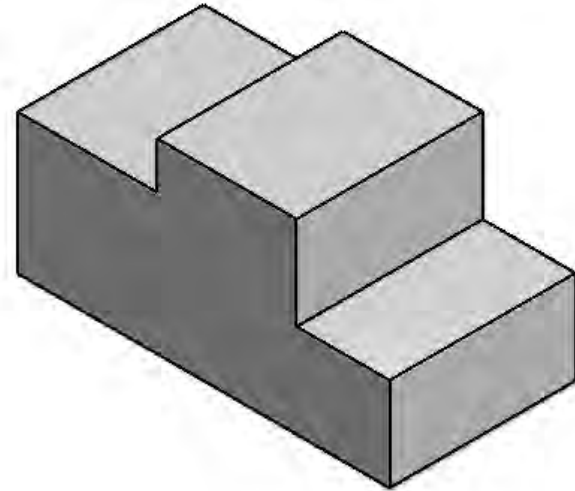
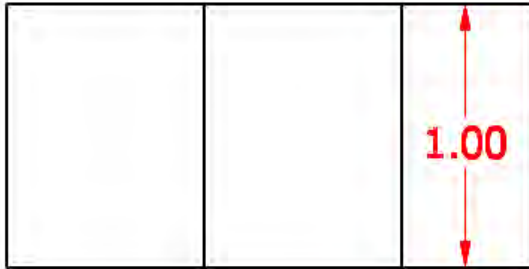
Incorrect



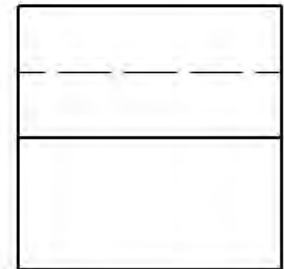
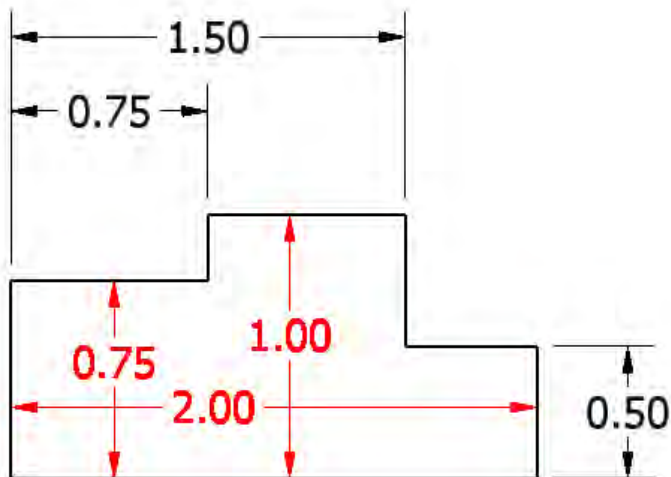
4. Whenever possible, avoid dimensioning to hidden lines and features.



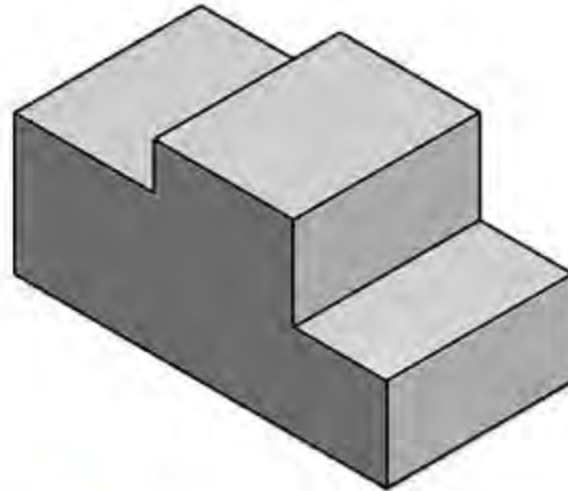
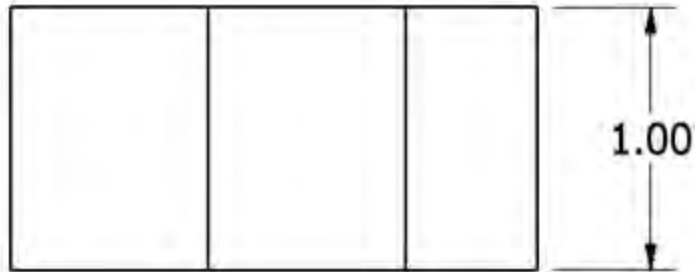
5. Avoid dimensioning over or through the object.



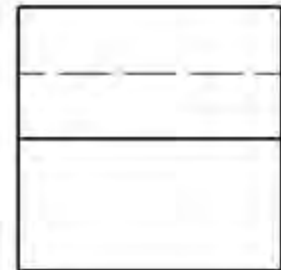
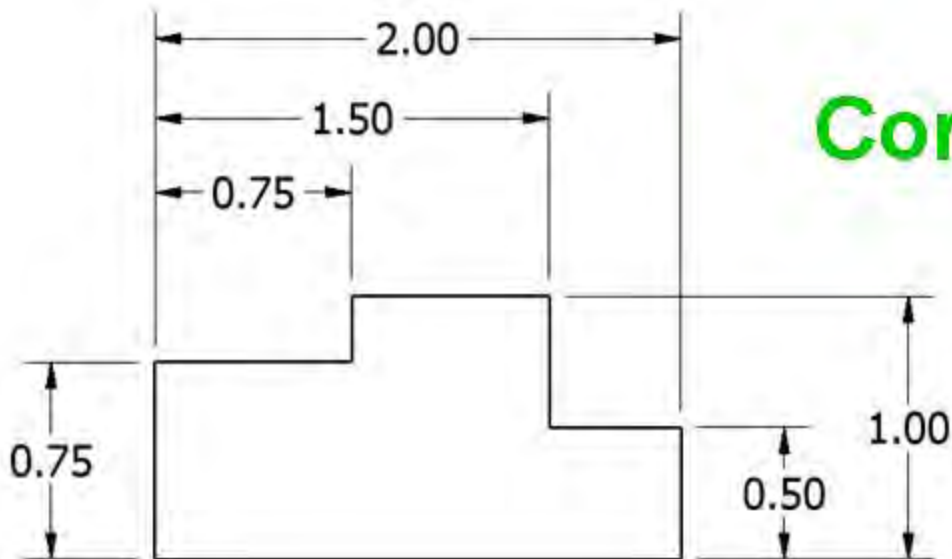
Incorrect



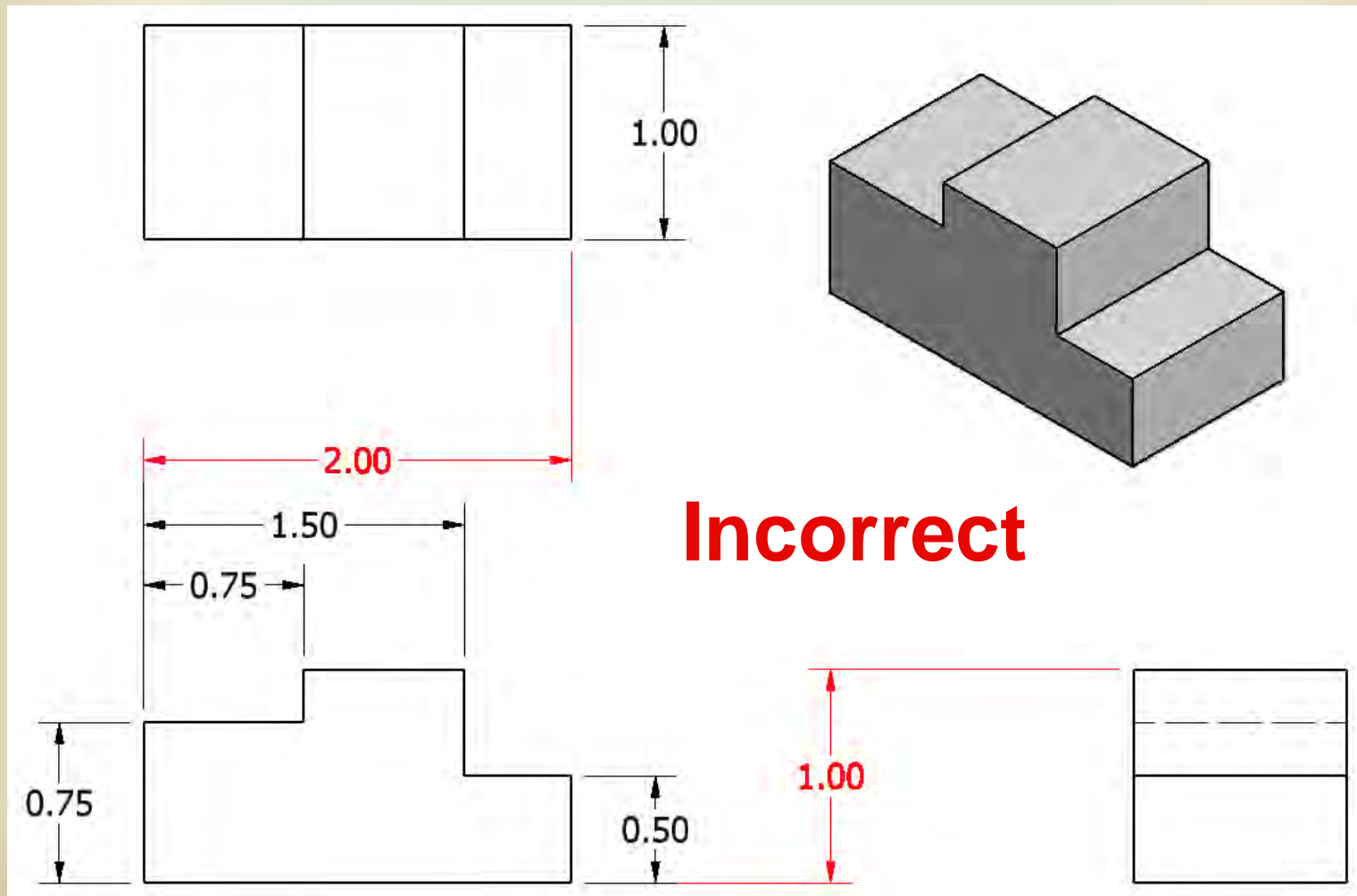
5. Avoid dimensioning over or through the object.



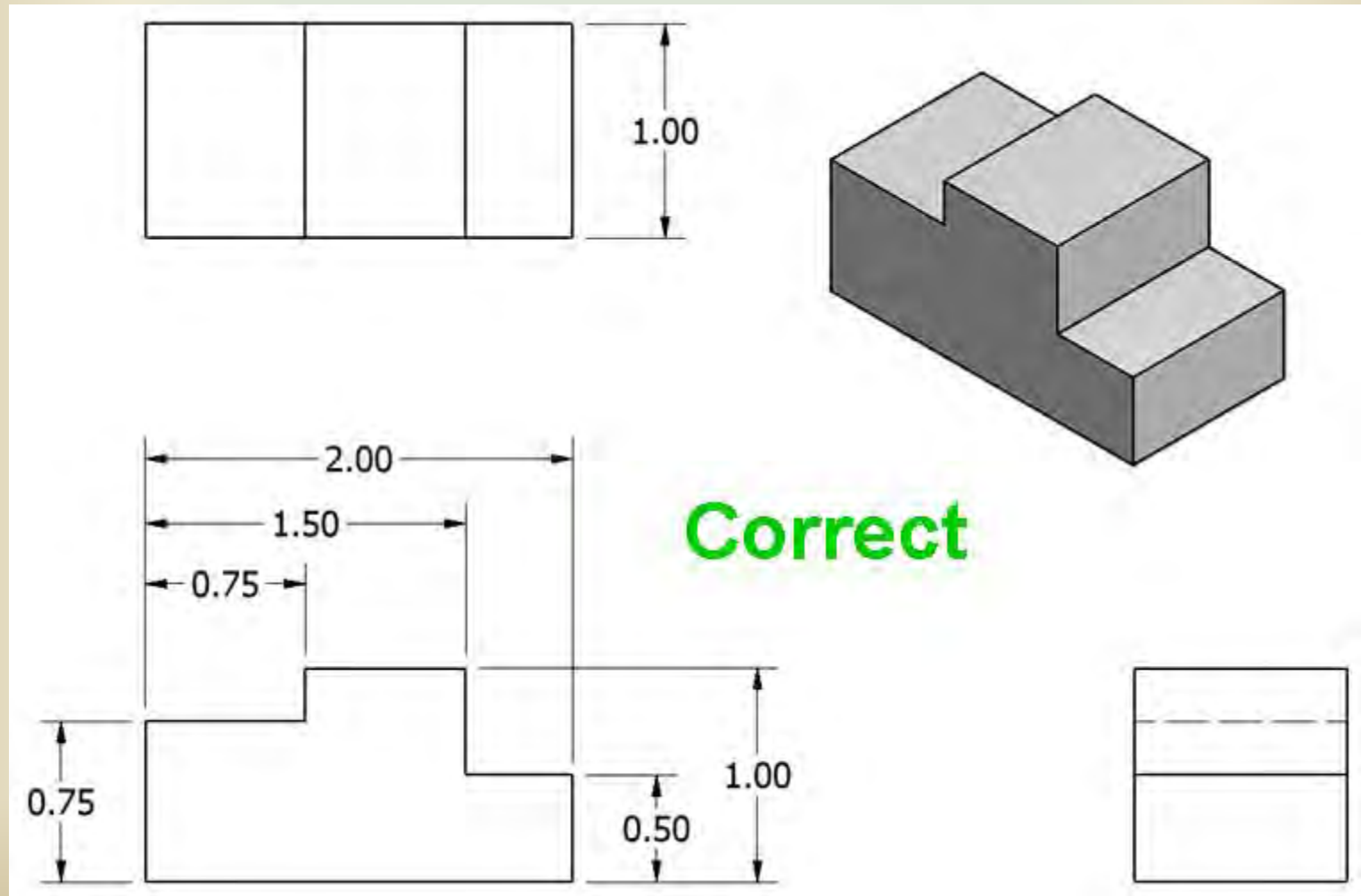
Correct



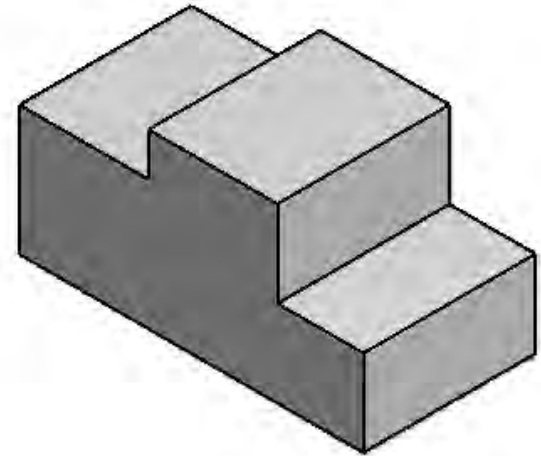
6. A dimension should be attached to only one view; for example, extension lines should not connect two views.



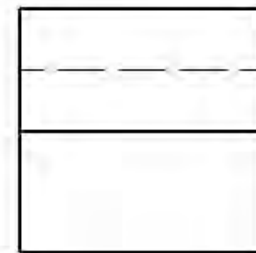
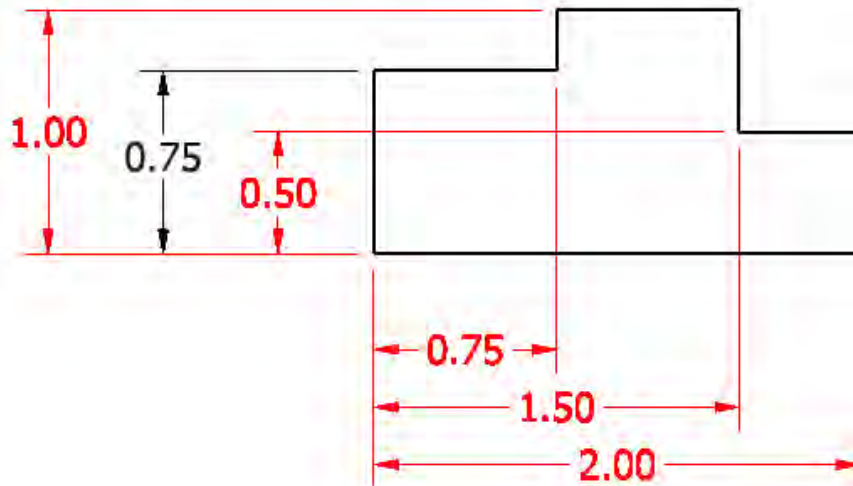
6. A dimension should be attached to only one view; for example, extension lines should not connect two views.



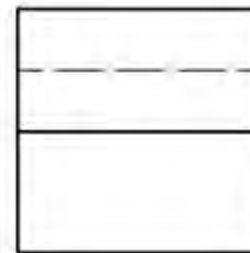
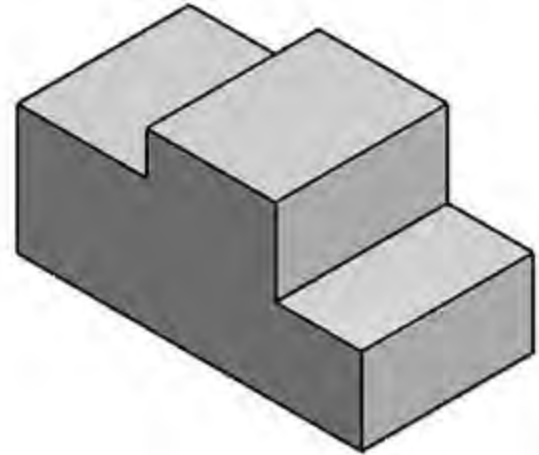
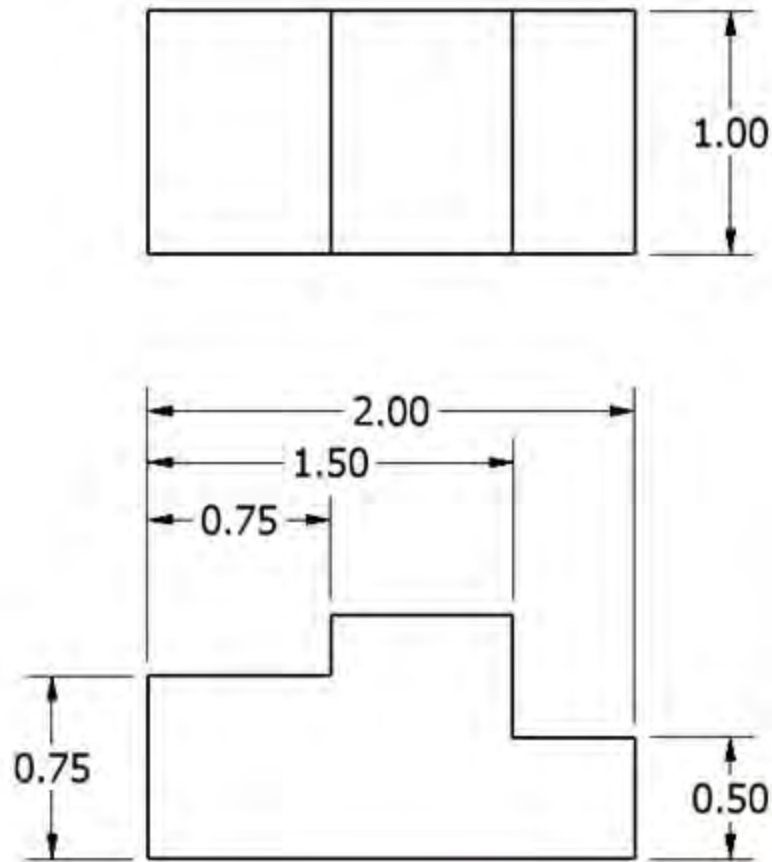
7. Whenever possible, locate dimensions between adjacent views.



Incorrect

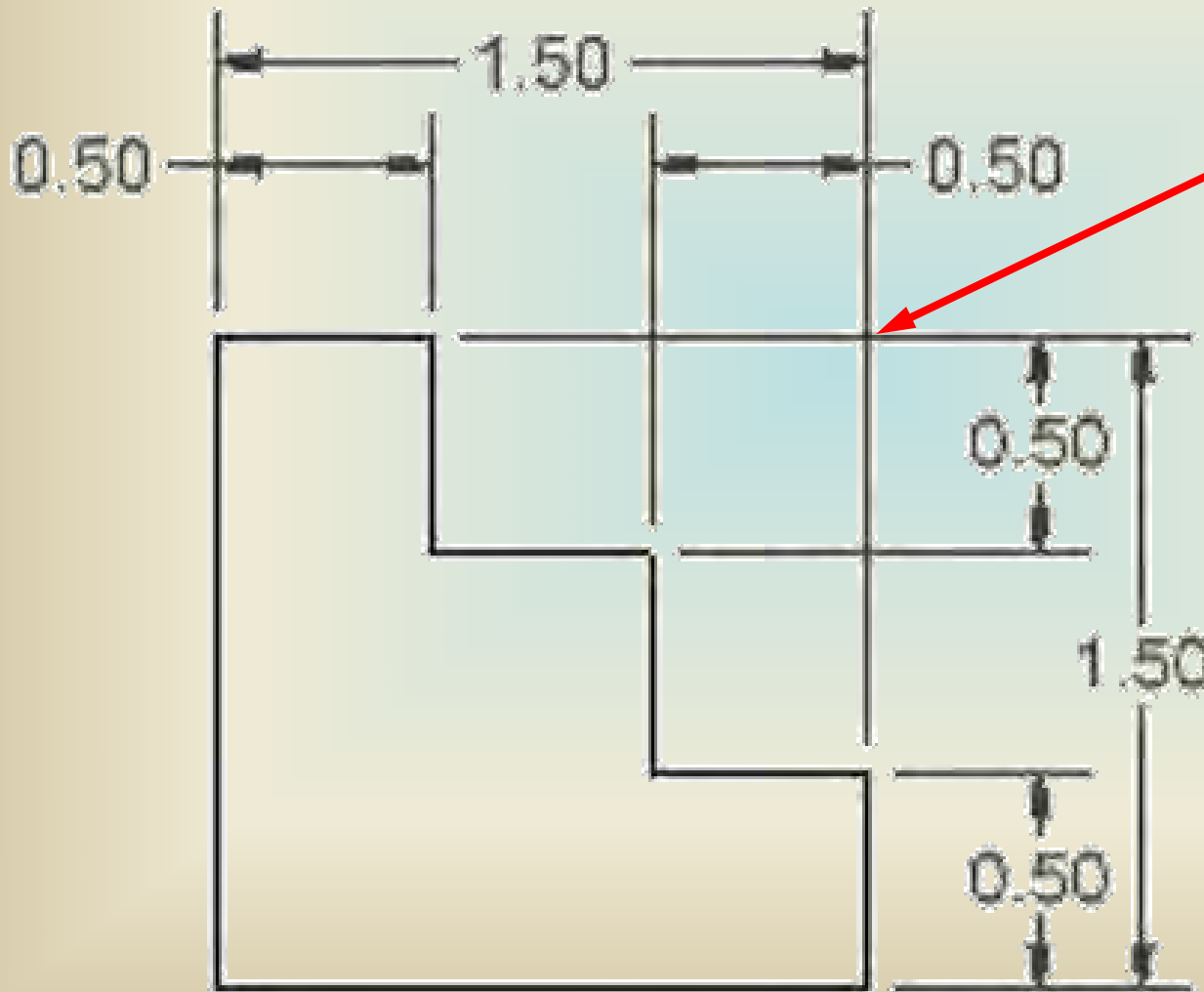


7. Whenever possible, locate dimensions between adjacent views.



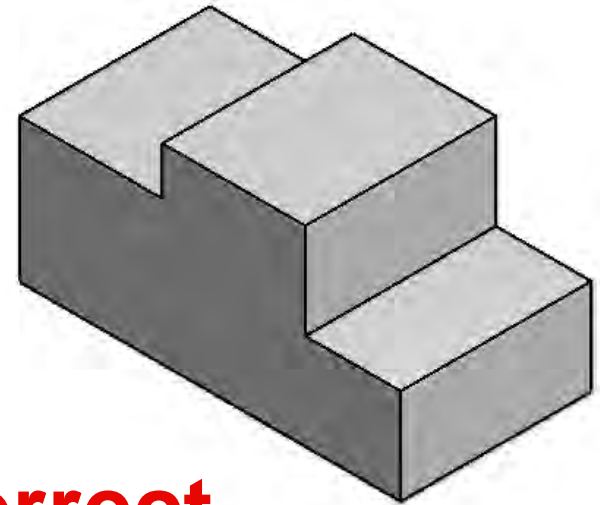
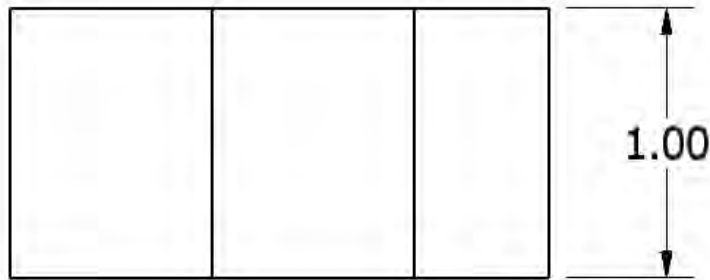
Correct

8. Avoid crossing extension lines, but do not break them when they do cross.

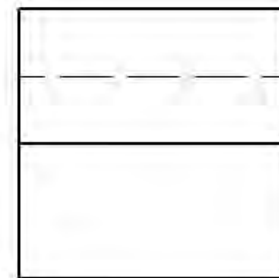


Multiple extension line crossings may be confused for the outside corner of the part.

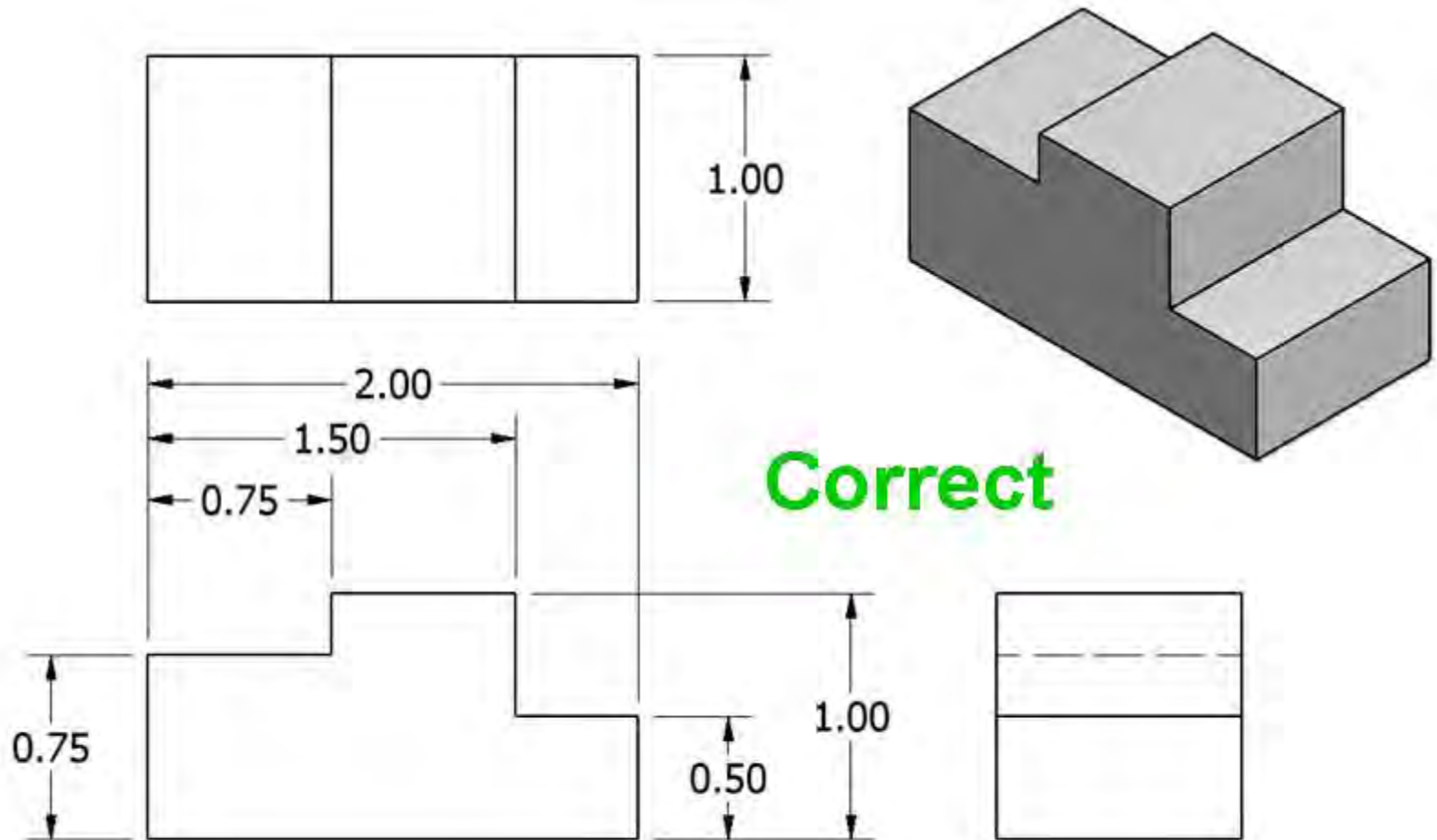
9. Whenever possible, avoid sending extension lines through object views.



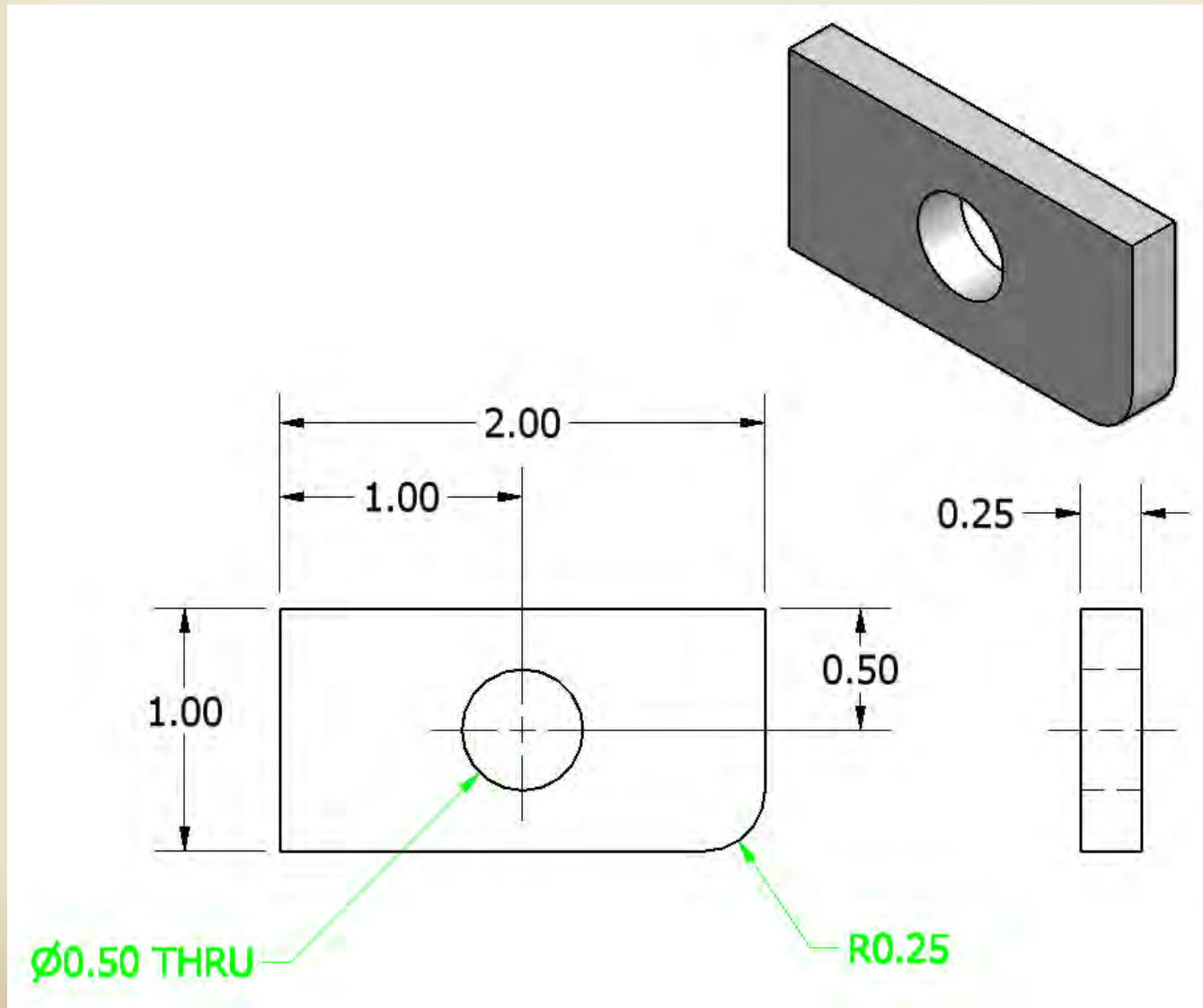
Incorrect



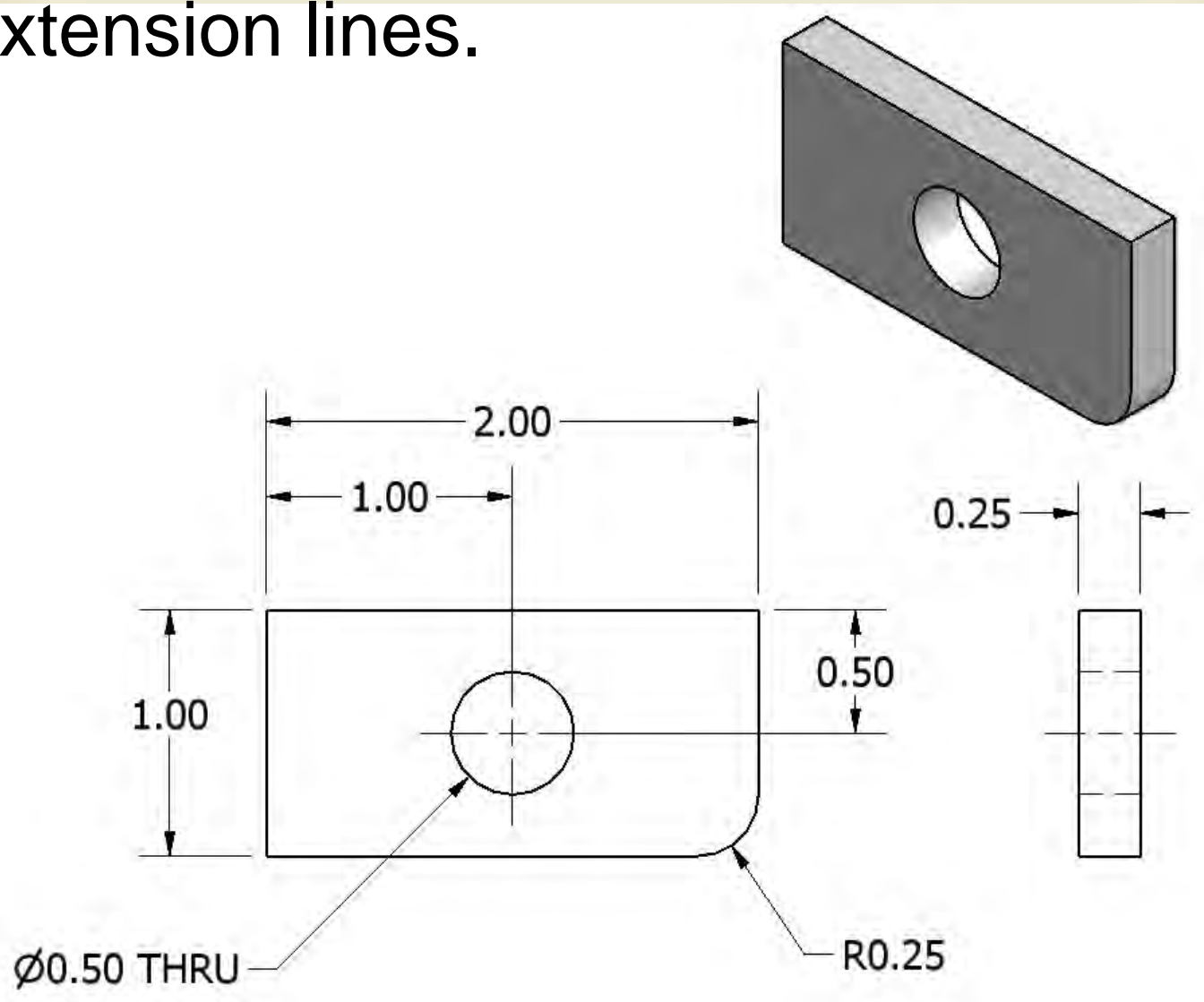
9. Whenever possible, avoid sending extension lines through object views.



10. In general, a circle is dimensioned by its diameter and an arc by its radius.

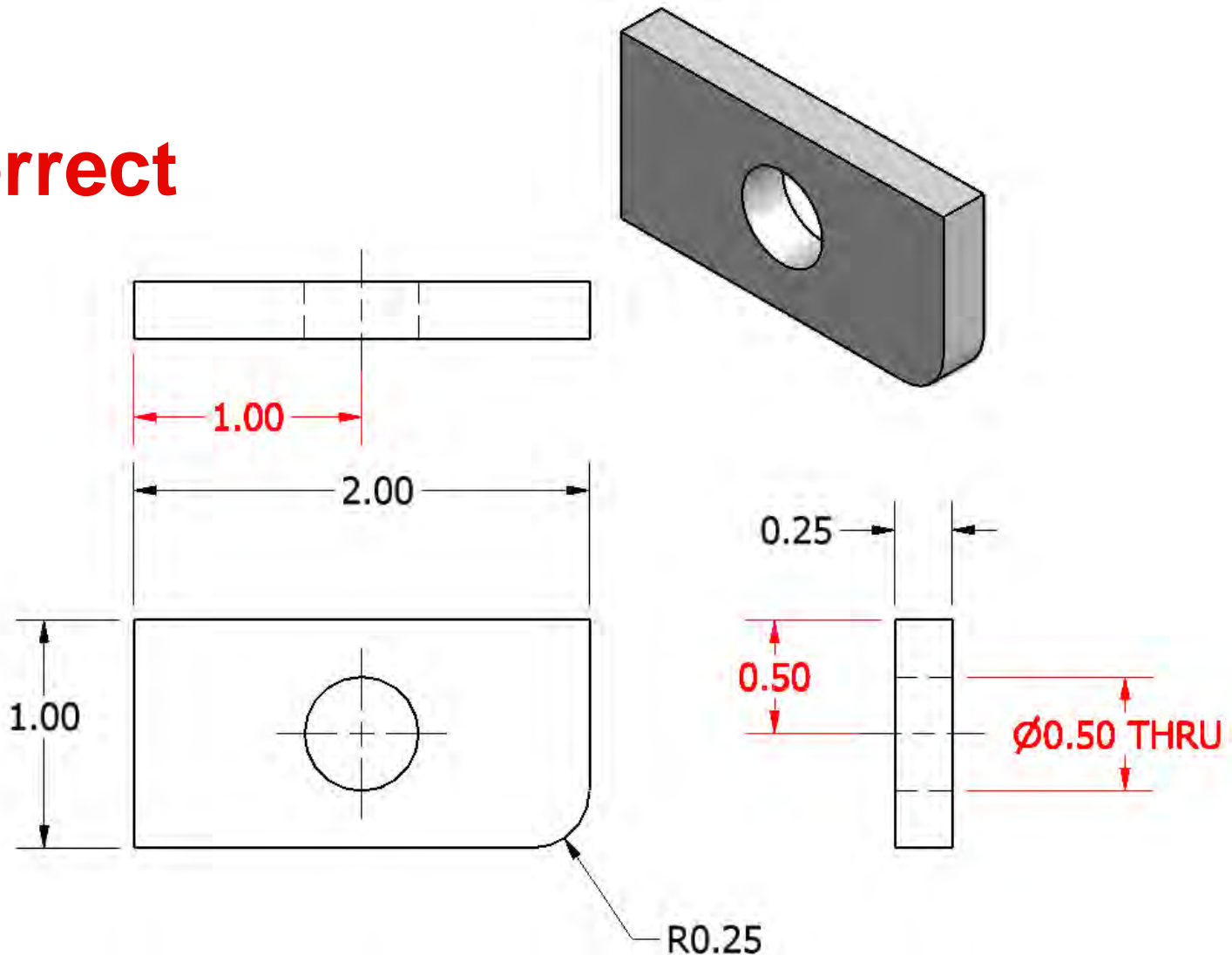


11. Holes are located by their centerlines, which may be extended and used as extension lines.



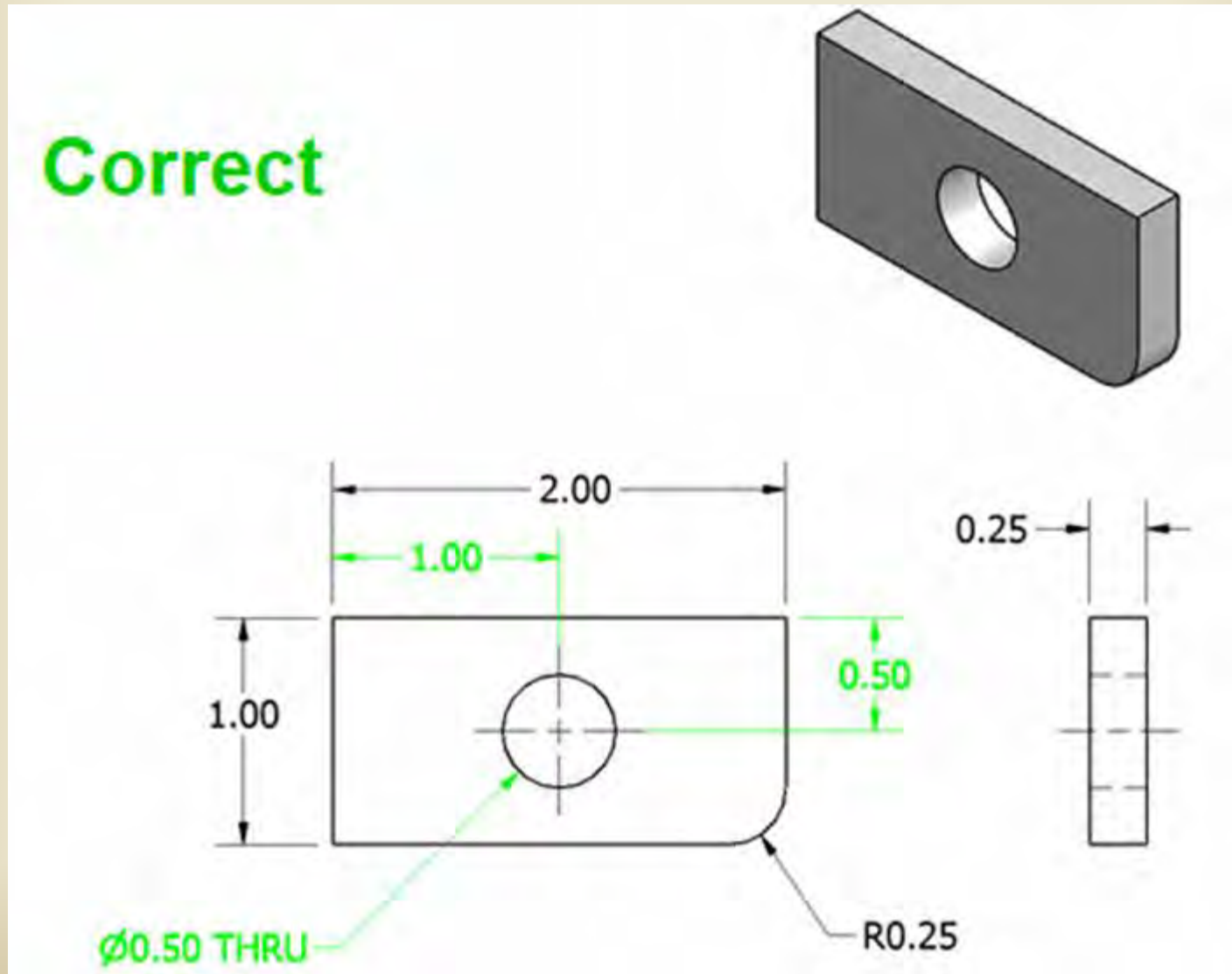
12. Holes should be located and sized in the view that shows the feature as a circle.

Incorrect



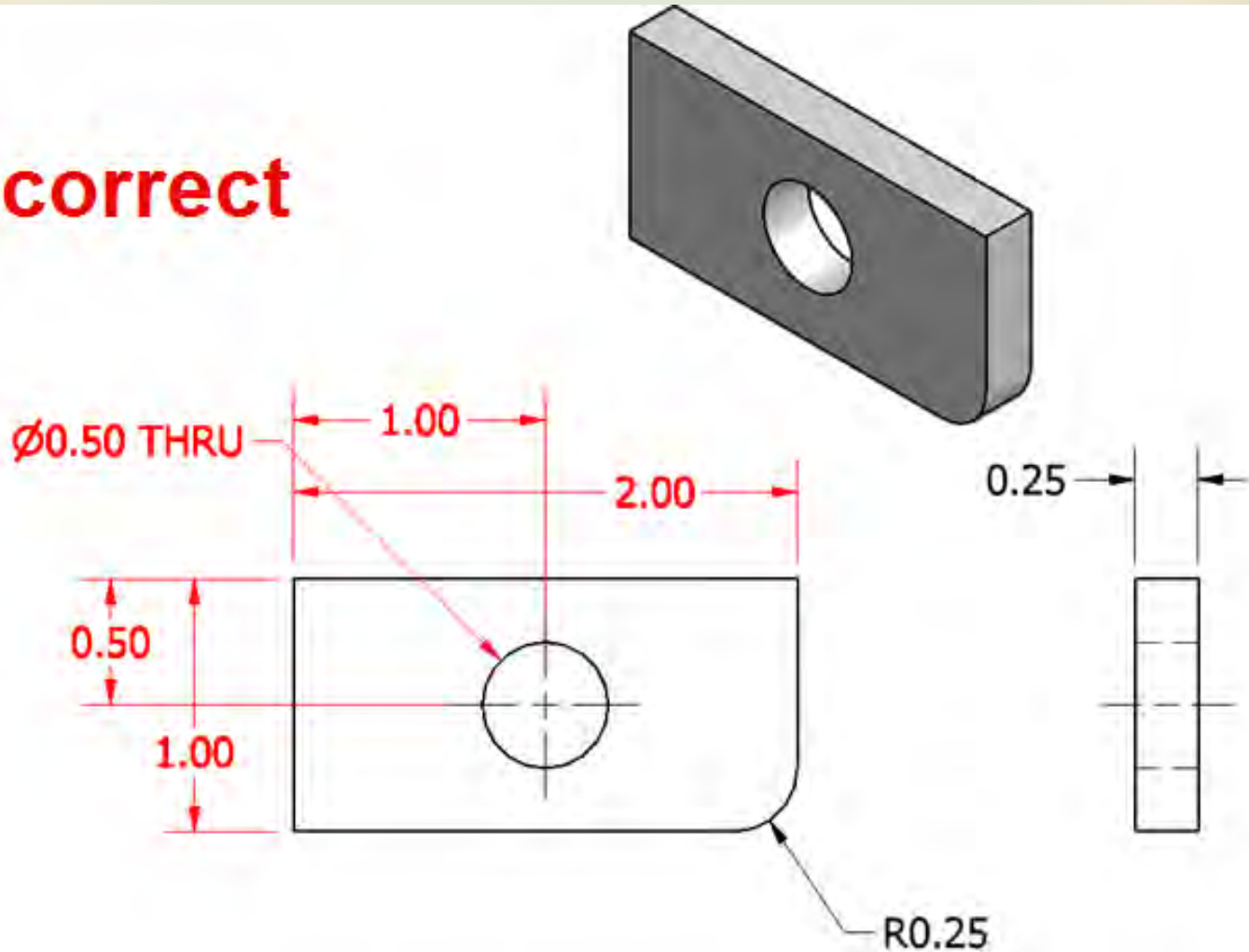
12. Holes should be located and sized in the view that shows the feature as a circle.

Correct



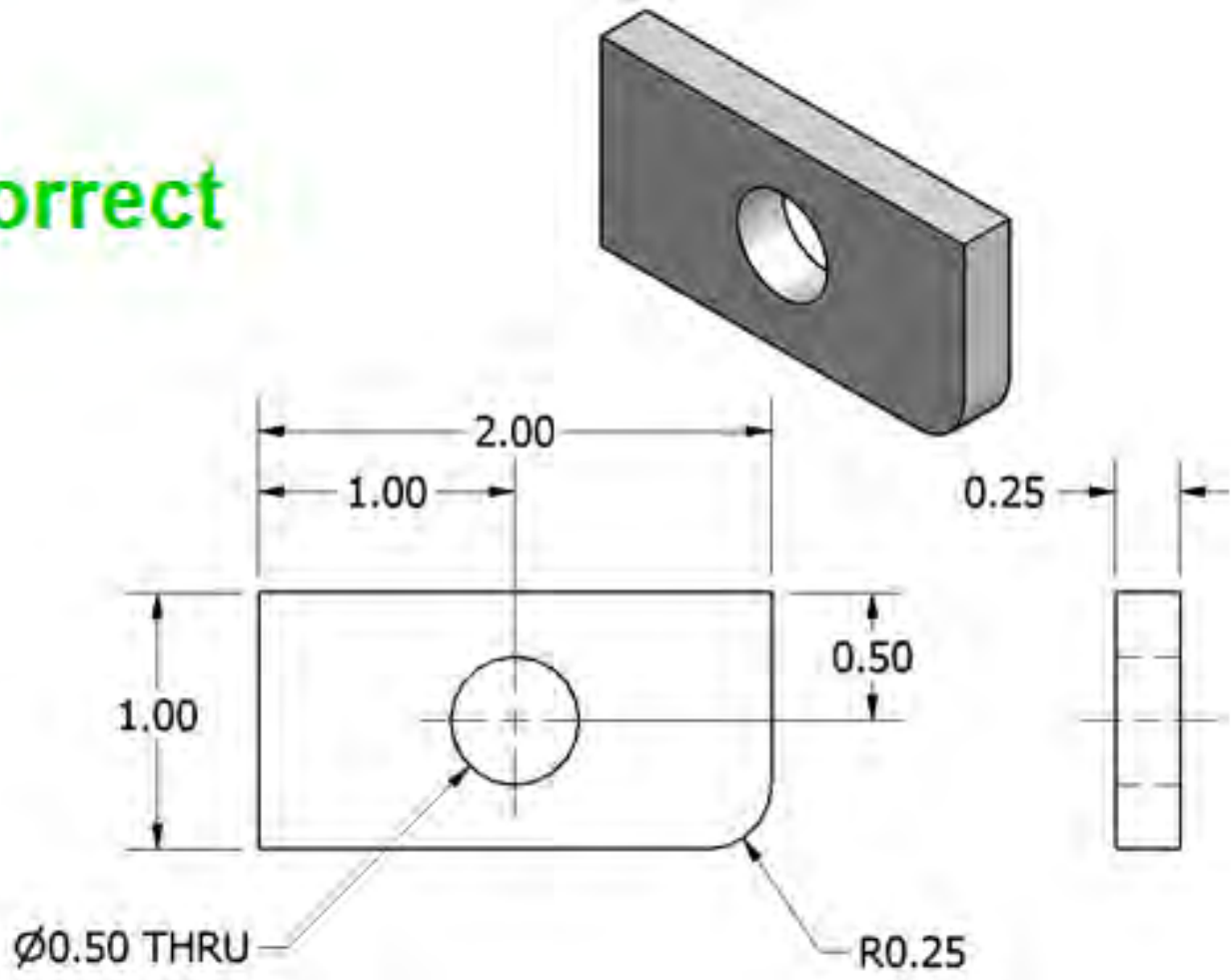
13. Do not cross a dimension line with an extension line, and avoid crossing dimensions with leader lines.

Incorrect



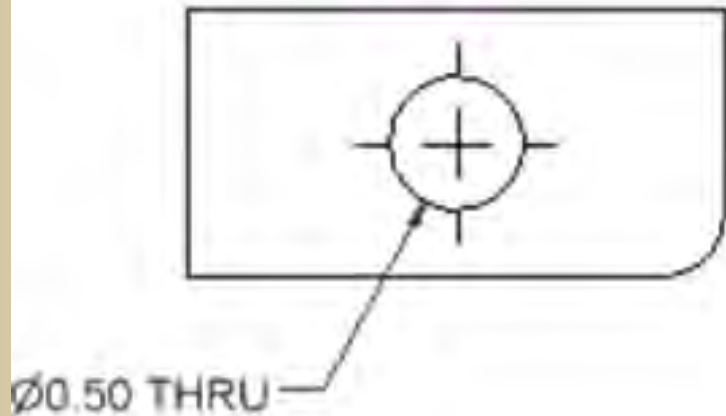
13. Do not cross a dimension line with an extension line, and avoid crossing dimensions with leader lines.

Correct

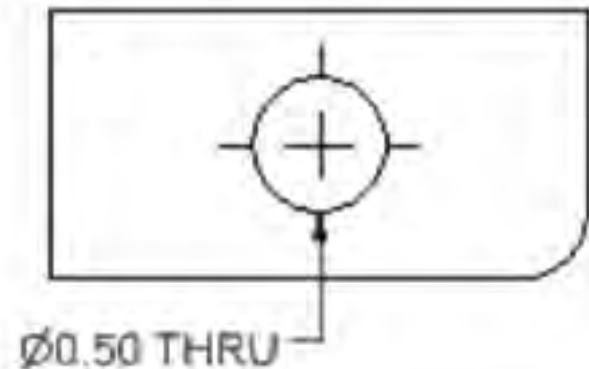
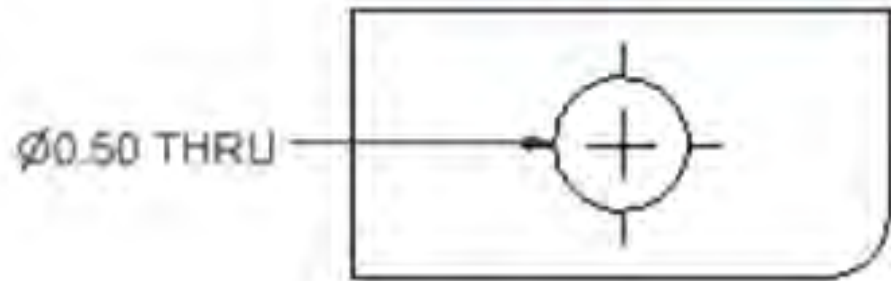


14. Leader lines point toward the center of the feature, and should not occur horizontally or vertically.

This

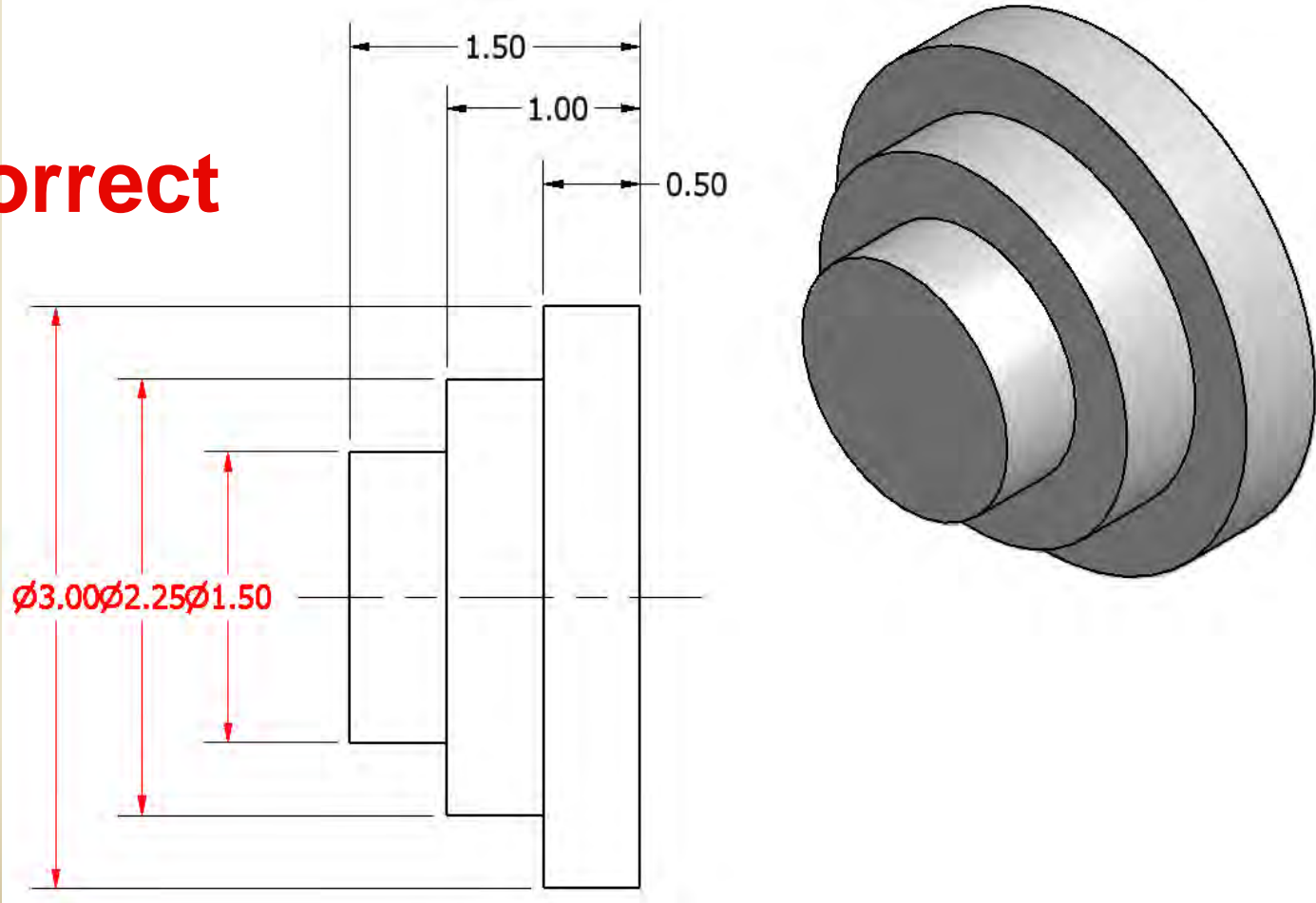


Not This

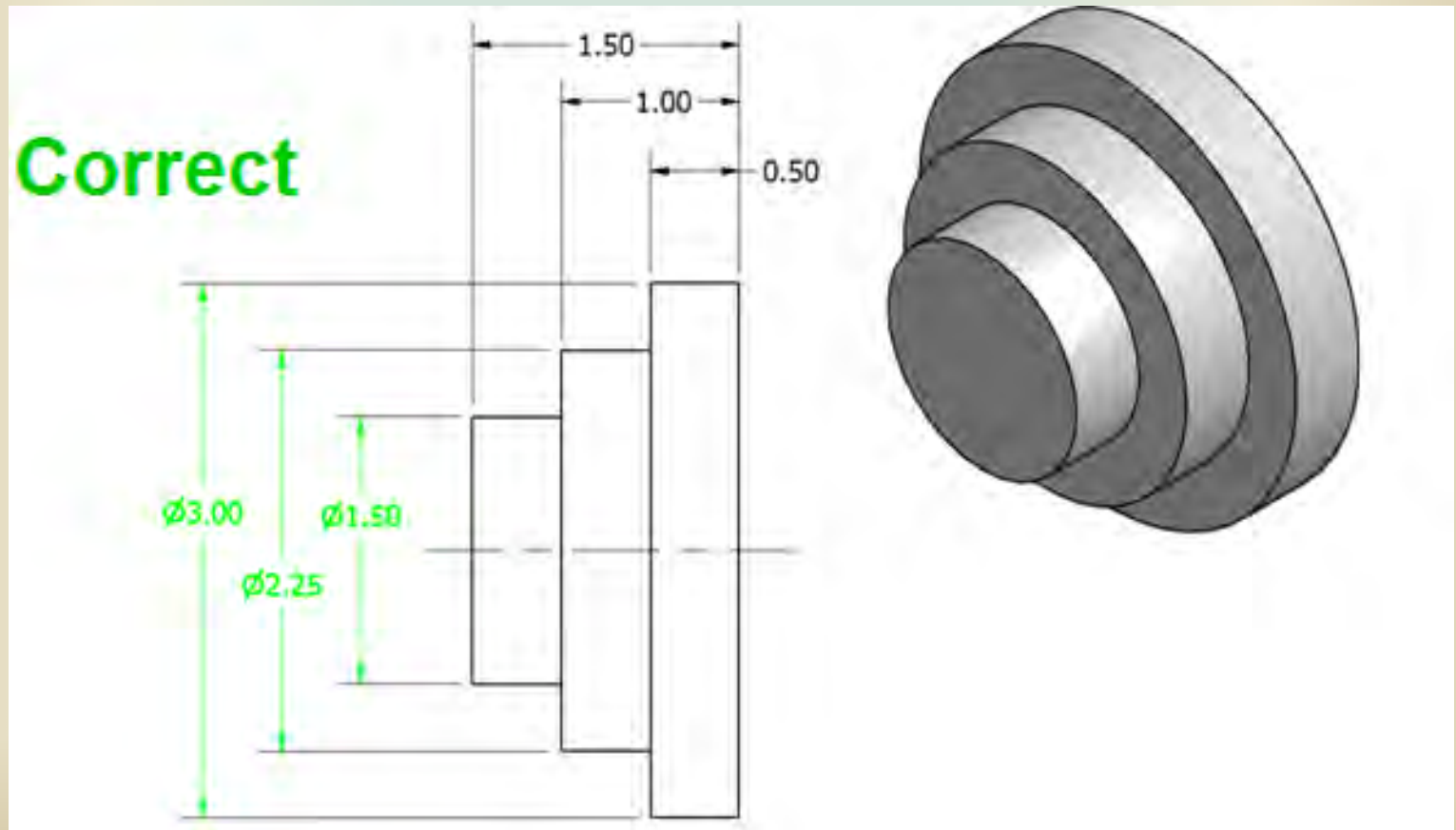


15. Dimension numbers should be centered between arrowheads, except when using stacked dimensions, and then the numbers should be staggered.

Incorrect

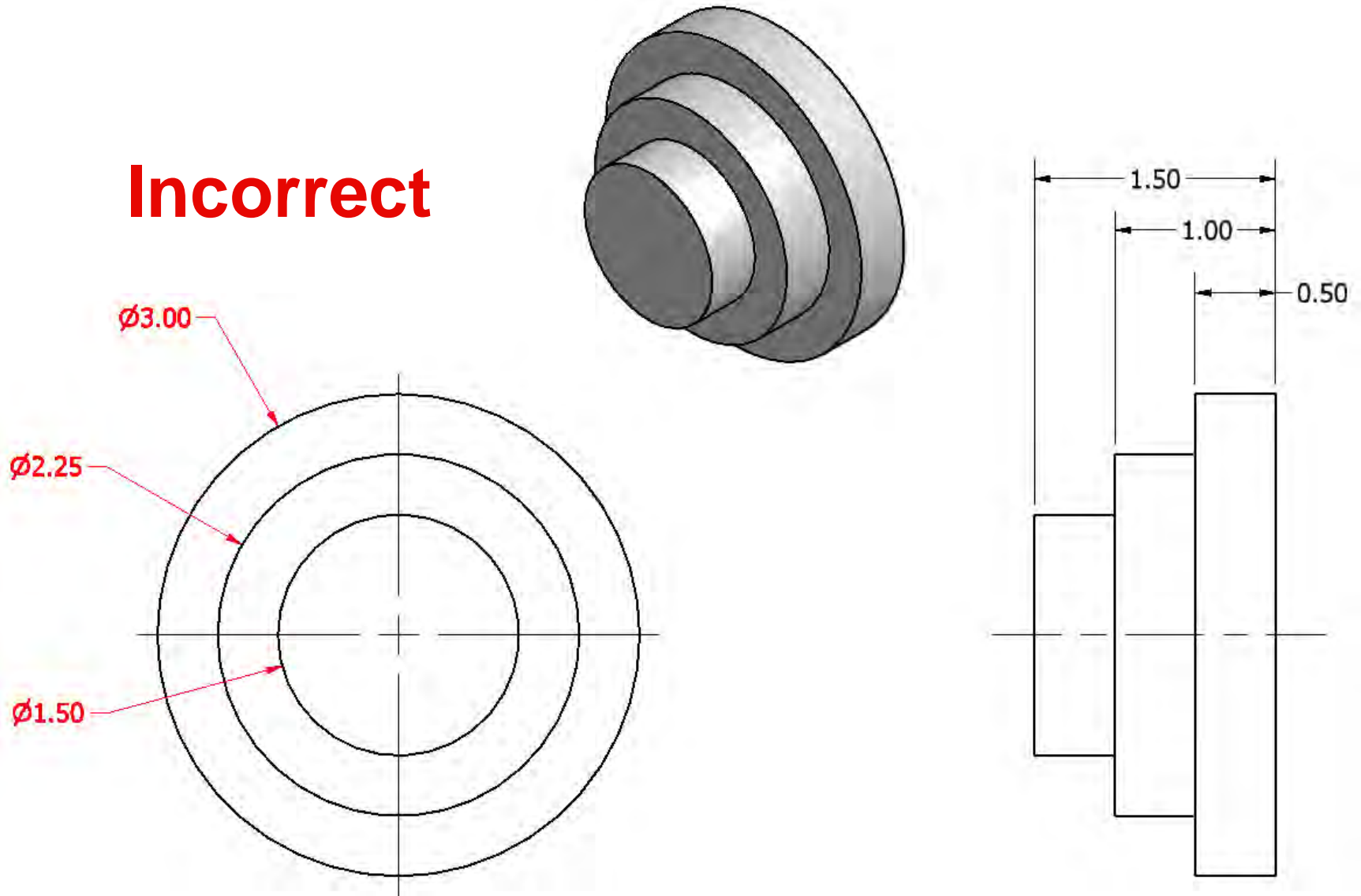


15. Dimension numbers should be centered between arrowheads, except when using stacked dimensions, and then the numbers should be staggered.



16. Concentric circles are dimensioned in the longitudinal view, whenever practical.

Incorrect



16. Concentric circles are dimensioned in the longitudinal view, whenever practical.

Correct

