Scale Drawings – RECAP

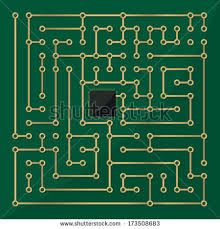
When working with scale drawings, use the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to set up a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, making sure to put the part (model or actual) you are solving for in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Why do we put the other units on a diagonal?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Example Problems:

1. The scale of a town map is ¼ in = 2 miles. If the fire station and town hall appear 3 inches apart on the map, how far apart are they really?

[](http://www.google.com/imgres?safe=active&biw=1366&bih=622&tbm=isch&tbnid=U2bRJfaUgHf1oM:&imgrefurl=http://www.gograph.com/stock-illustration/map-of-little-town-or-suburb-village.html&docid=gjP9G5uhvwNaiM&itg=1&imgurl=http://thumbs.gograph.com/gg65508090.jpg&w=170&h=120&ei=hTYLU4PBL8SwyQGl4YDoAw&zoom=1&ved=0CJkBEIQcMBQ&iact=rc&dur=517&page=1&start=0&ndsp=22)

[](http://www.google.com/imgres?safe=active&biw=1366&bih=622&tbm=isch&tbnid=CwQdrRi-7ufh8M:&imgrefurl=http://www.shutterstock.com/s/microchip/search.html&docid=0MQr1DiaeB-6lM&imgurl=http://thumb10.shutterstock.com/display_pic_with_logo/437887/173508683/stock-vector-computer-microchip-labyrinth-vector-art-173508683.jpg&w=450&h=470&ei=sDYLU9KoHYjhyQHWwoGwDQ&zoom=1&ved=0CMwBEIQcMCY&iact=rc&dur=1759&page=2&start=22&ndsp=34)2. To investigate the parts of a microchip, a scientist drew a diagram using the scale ½ mm = 5 cm. If the length of the microchip is really 3 ¼ mm, how long does it appear on the diagram?

[](http://www.google.com/imgres?safe=active&biw=1366&bih=622&tbm=isch&tbnid=IbFjIaZ3ZHeBkM:&imgrefurl=http://geology.com/state-map/north-carolina.shtml&docid=z0eFTU6D2WDc6M&imgurl=http://geology.com/state-map/maps/north-carolina-road-map.gif&w=750&h=281&ei=-TYLU63jJMOCyQGsz4DICA&zoom=1&ved=0CG0QhBwwCQ&iact=rc&dur=481&page=1&start=0&ndsp=12)3. A map of North Carolina was drawn using a scale of ¼ in = 20 miles. If Raleigh and Burlington are 50 miles apart, how far apart do they appear on the map?

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| --- | --- | --- | --- |
| 1. | 2. | 3. | 4. |
| 5. | 6. | 7. | 8. |
| 9. | 10. | 11. | 12. |
| 13. | 14 | 15. | 16. |