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$\frac{1}{8}$ inches apart on the map, how far apart are they really?



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?

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. |