|  |
| --- |
| Similar figures have the \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_, but not necessarily the \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_. |
| Similar Figures must meet the following criteria:* Corresponding angles are \_\_\_\_\_\_\_\_\_\_\_\_\_
* Corresponding sides are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 |
| The symbol for similarity “~” means \_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_ |
| In the diagram below ∆ABC ~ ∆DEF. This means that ∆ABC \_\_\_\_ \_\_\_\_\_\_\_\_\_ \_\_\_\_ ~ ∆DEF |
| **Corresponding Angles**Corresponding angles are congruent so: m∠A = 40°, so m∠\_\_\_\_ = \_\_\_\_\_\_ m∠B = 90°, so m∠\_\_\_\_ = \_\_\_\_\_\_ m∠A = 50°, so m∠\_\_\_\_ = \_\_\_\_\_\_  | **Corresponding Sides**Because corresponding side lengths are proportional we can write the ratio of the corresponding side lengths as equal. http://www.wcpss.net/isd/resources/ms/instructionalguides/images/ms-m-g7-ig58_clip_image018.gif \_\_\_\_\_\_ = \_\_\_\_\_\_ = \_\_\_\_\_\_ |
| Trapezoid ABCD ~ Trapezoid WXYZ |
| Identify all the corresponding angles.* ∠A corresponds to ∠\_\_\_\_\_\_\_
* ∠B corresponds to ∠\_\_\_\_\_\_\_
* ∠C corresponds to ∠\_\_\_\_\_\_\_
* ∠D corresponds to ∠\_\_\_\_\_\_\_
 | Identify all the corresponding sides.* Side $\overbar{AB}$ corresponds to \_\_\_\_\_\_\_\_\_\_
* Side $\overbar{BC }$corresponds to \_\_\_\_\_\_\_\_\_\_
* Side $\overbar{CD}$ corresponds to \_\_\_\_\_\_\_\_\_\_
* Side $\overbar{AD }$corresponds to \_\_\_\_\_\_\_\_\_\_

Write the ratio of the corresponding side lengths:$\frac{}{}$ $=$ $\frac{}{}$ = $\frac{}{}=\frac{}{}$ |
| 1. The trianles below are similar. Use them to answer the questions below.
 |
| Find the measures of the following angles: ∠ B\_\_\_\_\_\_\_ ∠F\_\_\_\_\_\_ ∠E\_\_\_\_\_\_\_ ∠G \_\_\_\_\_\_\_ | Find the lengths of the following sides:  Side $\overbar{EG}$ = \_\_\_\_\_\_\_\_\_\_ Side $\overbar{GF }$ = \_\_\_\_\_\_\_\_\_\_ |
| 2) | 3)Ann’s rectangular room is 10 ft. by 12 ft. 6 in. She draws a rectangular sketch of her room 8 in by 10 in. Is Ann’s sketch similar to her actual room? (hint: draw the similar figures and compare the sides) |
| 1. The figure below shows a pair of similar triangles. Find x and y. ***(Draw separate triangles.)***

 |
| 1. The figure below shows a pair of similar triangles. Find m, n and p. ***(Draw separate triangles***)

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