|  |  |  |
| --- | --- | --- |
| 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 corresponds to \_\_\_\_\_\_\_\_\_\_ * Side corresponds to \_\_\_\_\_\_\_\_\_\_ * Side corresponds to \_\_\_\_\_\_\_\_\_\_ * Side corresponds to \_\_\_\_\_\_\_\_\_\_   Write the ratio of the corresponding side lengths:  = | |
| 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 = \_\_\_\_\_\_\_\_\_\_  Side = \_\_\_\_\_\_\_\_\_\_ |
| 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***) | | |