Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TABLE # \_\_\_\_\_ **CH 2 Group Test**

GROUP MEMBERS: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Show all work. All group members must have exact same answer. Pages corrected are selected randomly.

|  |  |
| --- | --- |
| 1. Tell whether the two triangles are similar. Explain your reasoning. You must show work and write an explanation.   TA: C:\replacearts\Blue Assessment Book\Blue Chapter 2 AB\Arts\PNGs\mscc8_ab_0200_08.png  **EXPLANATION**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 1. The polygons are similar. Find x.   TA: C:\replacearts\Blue Assessment Book\Blue Chapter 2 AB\Arts\PNGs\mscc8_ab_0200_09.png  ANSWER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. The two figures are similar. Find the ratios (shaded to nonshaded) of the perimeters and of the areas.   TA: C:\replacearts\Blue Assessment Book\Blue Chapter 2 AB\Arts\PNGs\mscc8_ab_0200_12.png  PERIMETER RATIO AREA RATIO  \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 1. Triangle ABC and QRS are congruent.   TA: C:\replacearts\Blue Assessment Book\Blue Chapter 2 AB\Arts\PNGs\mscc8_ab_0200_17.png   1. Which angle of *ABC* corresponds to \_\_\_\_\_\_\_ 2. Which angle of *QRS* corresponds to \_\_\_\_\_\_\_ 3. Which side of *ABC* corresponds to side *SQ*? \_\_\_\_\_\_ |
| 1. The vertices of a triangle areand Reflect the triangle in the *y*-axis, and then rotate the image 90° counterclockwise about the origin. What are the coordinates of the image?   A’ ( ), B’ ( ), C’ ( )  A” ( ), B” ( ), C” ( ) | 1. The vertices of a triangle areand Dilate the triangle with respect to the origin using a scale factor of 2. Then translate the image 5 units right and 1 unit down. What are the coordinates of the image?   X’ ( ), Y’ ( ), Z’ ( )  X” ( ), Y” ( ), Z” ( ) |
| 1. The ratio of the corresponding side lengths of two similar MP3 players is 4 : 3. The area of the larger MP3 player is 8 square inches. What is the area of the smaller MP3 player?   ANSWER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 1. *TA: C:\replacearts\Blue Assessment Book\Blue Chapter 2 AB\Arts\PNGs\mscc8_ab_0200_26.png*The two figures are similar. Find the ratios (small to large) of the perimeters.   ANSWER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

BACK 🡪

|  |  |  |
| --- | --- | --- |
| 1. Rotate the triangle  about the origin, and then translate the triangle 3 units right and 2 units up. Find the coordinates of the image. Remember to label all vertices.  |  |  | | --- | --- | | TA: C:\replacearts\Blue Assessment Book\Blue Chapter 2 AB\Arts\PNGs\mscc8_ab_0200_33.png | A” ( ), B” ( ), C” ( ) | |
| 1. A map of your neighborhood is represented on the grid.   TA: C:\replacearts\Blue Assessment Book\Blue Chapter 2 AB\Arts\PNGs\mscc8_ab_0200_27.png   1. Find the translation to describe your walk from school to your house. Write your answer in coordinate notation.   b. The pizza parlor is a reflection in the *y*-axis of your school. What are the coordinates of the pizza parlor? PIZZA PARLOR  c. The transformation from your house to the park is a 90° clockwise rotation about the origin. What are the coordinates of the park?  PARK |

**EXTRA CREDIT**

|  |
| --- |
| Rectangle *ABCD* is similar to Rectangle *JKLM*.  **TA: C:\replacearts\Blue Assessment Book\Blue Chapter 2 AB\Arts\PNGs\mscc8_ab_0200_39.png*Part A*** What is the ratio (*ABCD* to *JKLM*) of the corresponding side lengths? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ***Part B*** Side *BC* is 4 meters long. Side *CD* is twice the length of side *BC*. What is the length of side *LM*? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |