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

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

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

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| 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.pngANSWER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 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.pngPERIMETER 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.png1. 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: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| 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.

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| TA: C:\replacearts\Blue Assessment Book\Blue Chapter 2 AB\Arts\PNGs\mscc8_ab_0200_33.png | A” ( ), B” ( ), C” ( ) |

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| 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.png1. Find the translation to describe your walk from school to your house. Write your answer in coordinate notation. $\left(x, y\right) \rightarrow \left( \right)$

 b. The pizza parlor is a reflection in the *y*-axis of your school. What are the coordinates of the pizza parlor? PIZZA PARLOR $\left( \right)$ 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 $\left( \right)$ |

**EXTRA CREDIT**

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| 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*? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  |