GSE Geometry with Support Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| Translations – Choose **9** problems to complete | | |
| 1. Find the coordinates of the image left 2 and up 4  A(-3, 3) 🡪  B(-3, 4) 🡪  C(1, 2) 🡪 | 2. Find the coordinates of the image using the rule: (x, y) 🡪 (x + 3, y – 1)  A(0, 4) 🡪  B(4, 5) 🡪  C(1, 1) 🡪 | 3. Explain what the following rule means in words:  (x, y) 🡪 (x + 1, y – 8) |
| 4. Find the coordinates of the image right 2  A(-2, 3) 🡪  B(-3, 0) 🡪  C(1, -2) 🡪 | 5. Write the general rule using the image and pre-image’s coordinates  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  A(0, -4) 🡪 A’(-2, -2)  B(4, 2) 🡪 B’(2, 4)  C(1, 0) 🡪 C’(-1, 2) | 6. Write the general rule of the following translation.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 7. Write the general rule of the following translation.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 8. Write the general rule of the following translation.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 9. Write the general rule of the following translation.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 10. Graph the translation using the rule (x, y) 🡪 (x, y – 5) | 11. Graph the translation using the rule (x, y) 🡪 (x + 3, y – 4) | 12. Graph a translation 4 units right. |
| Reflections – Choose **9** problems to complete | | |
| 1. Find the coordinates of the image reflected over the x-axis  A(-3, 3) 🡪  B(-3, 4) 🡪  C(1, 2) 🡪 | 2. Find the coordinates of the image using the rule: (x, y) 🡪 (-x, y)  A(0, 4) 🡪  B(4, 5) 🡪  C(1, 1) 🡪 | 3. Explain what the following rule means in words:  (x, y) 🡪 (x, -y) |
| 4. Find the coordinates of the image reflected over the y-axis  A(-2, 3) 🡪  B(-3, 0) 🡪  C(1, -2) 🡪 | 5. Write the general rule using the image and pre-image’s coordinates  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  A(0, -4) 🡪 A’(0, 4)  B(4, 2) 🡪 B’(4, -2)  C(1, 0) 🡪 C’(1, 0) | 6. Write the line of reflection that was used.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 7. Reflect over the x = 1 | 8. Write the line of reflection that was used.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 9. Write the line of reflection that was used.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 10. Reflect over y = -1 | 11. Reflect over the x-axis | 12. Reflect over x = -2 |