

SHARP

Worksheet 20 Memorandum: Transformation Geometry

Grade 9 Mathematics

1.
 - a) reflection in the x-axis – the point has a mirror image when the paper is folded on the x-axis. Rule: $(x; y) \rightarrow (x; -y)$
 - b) reflection about the line $y = x$ – the x and the y-value swap around. Rule: $(x; y) \rightarrow (y; x)$
 - c) a point translated 3 units to the right and 4 units down – the point moves 3 units to the right and it moves 4 units down. Rule: $(x; y) \rightarrow (x + 3; y - 4)$
 - d) reflection about the y-axis – the point has a mirror image when the paper is folded on the y-axis. Rule: $(x; y) \rightarrow (-x; y)$
 - e) an enlargement by a factor of 2 – the point's coordinate is multiplied by 2, it becomes 2 times bigger. Rule: $(x; y) \rightarrow (2x; 2y)$
 - f) a reduction by a factor of 3 – the point's coordinates are divided by three, it becomes 3 times smaller. Rule: $(x; y) \rightarrow \left(\frac{x}{3}; \frac{y}{3}\right)$

2.
 - a) $Z (3; 5) \rightarrow A (-3; 5)$
 - b) $Z (3; 5) \rightarrow B (1; 7)$
 - c) $Z (3; 5) \rightarrow C (9; 15)$
 - d) $Z (3; 5) \rightarrow D (5; 3)$
 - e) $Z (3; 5) \rightarrow E (-2; 9)$
 - f) $Z (3; 5) \rightarrow F (3; -5)$
 - g) $Z (3; 5) \rightarrow G \left(\frac{3}{2}; \frac{5}{2}\right)$
 - h) $Z (3; 5) \rightarrow H (5; 3)$ (this is the same as question d on purpose).

3.
 - a) reflected about the y-axis Rule: $(x; y) \rightarrow (-x; y)$
 - b) reflected about the line $y = x$ Rule: $(x; y) \rightarrow (y; x)$
 - c) reduced by a factor of 2 Rule: $(x; y) \rightarrow \left(\frac{x}{2}; \frac{y}{2}\right)$
 - d) translated 2 units left and 11 units up Rule: $(x; y) \rightarrow (x - 2; y + 11)$
 - e) reflected about the y-axis Rule: $(x; y) \rightarrow (-x; y)$
 - f) enlarged by a factor of 2 Rule: $(x; y) \rightarrow (2x; 2y)$
 - g) reflected about the line $y = x$ Rule: $(x; y) \rightarrow (y; x)$
 - h) reduced by a factor of 3 Rule: $(x; y) \rightarrow \left(\frac{x}{3}; \frac{y}{3}\right)$
 - i) reflected about the x-axis Rule: $(x; y) \rightarrow (x; -y)$
 - j) reflected about the line $y = x$ Rule: $(x; y) \rightarrow (y; x)$



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Patrick Vollmar



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