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Reflection of Figures

Name _____ Score _____

Math Blast

Solve and show all steps.

A triangle ABC has vertices A(2, 3), B(5, 1), and C(1, -2). If triangle ABC is reflected across the x-axis, what are the coordinates of its new vertices A', B', and C'?	Show all steps here
A rectangle DEFG has vertices D(-4, 6), E(2, 6), F(2, 0), and G(-4, 0). If rectangle DEFG is reflected across the y-axis, what are the coordinates of its new vertices D', E', F', and G'?	Show all steps here
A single point P is located at (7, -3). If point P is reflected across the line y = x, what are the coordinates of its image P'?	Show all steps here
A trapezoid HJKL has vertices H(1, 1), J(5, 1), K(4, 4), and L(2, 4). If trapezoid HJKL is reflected across the line y = 5, what are the coordinates of its new vertices H', J', K', and L'?	Show all steps here
A segment MN has endpoints M(-3, 0) and N(-1, -5). If segment MN is reflected across the line x = 1, what are the coordinates of its new endpoints M' and N'?	Show all steps here

Reflection of Figures

Answer Key

Solve and show all steps.

A'(2, -3), B'(5, -1), C'(1, 2)

D'(4, 6), E'(-2, 6), F'(-2, 0), G'(4, 0)

P'(-3, 7)

H'(1, 9), J'(5, 9), K'(4, 6), L'(2, 6)

M'(5, 0), N'(3, -5)