

## Write the New Coordinates

Write the coordinates obtained after the given reflection.

1)  $P(-8, 5), Q(-5, 5), R(-5, 8), S(-8, 8)$

Reflection across the line  $y = 4$

$P'$ : \_\_\_\_\_,  $Q'$ : \_\_\_\_\_

$R'$ : \_\_\_\_\_,  $S'$ : \_\_\_\_\_

2)  $K(2, -4), L(1, -8), M(5, -7), N(6, -3)$

Reflection across the line  $x = -2$

$K'$ : \_\_\_\_\_,  $L'$ : \_\_\_\_\_

$M'$ : \_\_\_\_\_,  $N'$ : \_\_\_\_\_

3)  $U(10, 4), V(4, 4), W(10, -2), C(-6, -5), D(-4, -5)$

Reflection across the line  $y = -6$

$U'$ : \_\_\_\_\_,  $V'$ : \_\_\_\_\_

$W'$ : \_\_\_\_\_,  $C'$ : \_\_\_\_\_

$D'$ : \_\_\_\_\_,  $B'$ : \_\_\_\_\_

$D'$ : \_\_\_\_\_

5)  $K(4, -7), L(8, -7), M(4, 3), R(1, 3), S(0, 1)$

Reflection across the line  $x = 5$

$K'$ : \_\_\_\_\_,  $L'$ : \_\_\_\_\_

$M'$ : \_\_\_\_\_,  $R'$ : \_\_\_\_\_

$Q'$ : \_\_\_\_\_,  $S'$ : \_\_\_\_\_

$S'$ : \_\_\_\_\_

7)  $S(-7, -5), T(-7, -8), U(-6, -8), V(-6, -5)$

Reflection across the line  $x = -1$

$S'$ : \_\_\_\_\_,  $T'$ : \_\_\_\_\_

$U'$ : \_\_\_\_\_,  $V'$ : \_\_\_\_\_

8)  $E(2, 5), F(6, 5), G(2, 9)$

Reflection across the line  $y = 3$

$E'$ : \_\_\_\_\_,  $F'$ : \_\_\_\_\_

$G'$ : \_\_\_\_\_

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**Answer key****Write the New Coordinates**

Sheet 1

Write the coordinates obtained after the given reflection.

1)  $P(-8, 5), Q(-5, 5), R(-5, 8), S(-8, 8)$

Reflection across the line  $y = 4$ 

$P': (-8, 3), Q': (-5, 3)$

$R': (-5, 0), S': (-8, 0)$

2)  $K(2, -4), L(1, -8), M(5, -7), N(6, -3)$

Reflection across the line  $x = -2$ 

$K': (-6, -4), L': (-5, -8)$

$M': (-9, -7), N': (-10, -3)$

3)  $U(10, 4), V(4, 4), W(8, 7), X(10, 7)$

Reflection across the line  $y = -6$ 

$U': (-10, 4), V': (-4, 4)$

$W': (-8, 7), X': (-2, 7)$

5)  $K(4, -7), L(8, -7), M(4, 10), N(8, 10)$

Reflection across the line  $x = 5$ 

$K': (-7, 4), L': (3, 4)$

$M': (-3, 10), N': (10, 10)$

7)  $S(-7, -5), T(-7, -8), U(-6, -8), V(-6, -5)$

Reflection across the line  $x = -1$ 

$S': (5, -5), T': (5, -8)$

$U': (4, -8), V': (4, -5)$

8)  $E(2, 5), F(6, 5), G(2, 9)$

Reflection across the line  $y = 3$ 

$E': (2, 1), F': (6, 1)$

$G': (2, -3)$

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