Mathematics

# 6.NS Reflecting points over coordinate axes 

## Task

Below are some points in the coordinate plane:

a. Find the coordinates of the points.
b. Reflect the points over the $x$-axis and find the coordinates of the new points: label the reflection of point $A$ as $A^{\prime}$, the reflection of $B$ as $B^{\prime}$, the reflection of $C$ as $C^{\prime}$, and the reflection of $D$ as $D^{\prime}$.
c. Reflect the points from (b) over the $y$-axis: label the reflection of point $A^{\prime}$ as $A^{\prime \prime}$, the reflection of $B^{\prime}$ as $B^{\prime \prime}$, the reflection of $C^{\prime}$ as $C^{\prime \prime}$, and the reflection of $D^{\prime}$ as $D^{\prime \prime}$.
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d. How do the points $A^{\prime \prime}, B^{\prime \prime}, C^{\prime \prime}, D^{\prime \prime}$ from (c) relate to the points $A, B, C$, and $D$ ?

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