We know that if we have two points: $A\left(x_{1}, y_{1}\right)$ and $B\left(x_{2}, y_{2}\right)$, then the midpoint $O$ of the segment AB has coordinates: $O\left(\frac{x_{1}+x_{2}}{2}, \frac{y_{1}+y_{2}}{2}\right)$.

In our case we have: $A(5,2)$ and $B(-3,-6)$. Then the midpoint $O$ of the segment AB has coordinates: $O\left(\frac{5+(-3)}{2}, \frac{2+(-6)}{2}\right)=O(1,-2)$.

Answer: the coordinates of the midpoint is the midpoint $O$ of the segment AB has coordinates: $O(1,-2)$.

