Question 20975

B is the midpoint of line $A C . A B=5 x$ and $B C=2 x+3$. Find $A B, B C$, and $A C$. Solution.
Since $C$ is the midpoint, we get
$A C=B C$
$5 x=2 x+3$
$x=1$

Then
$A B=B C=5 \cdot 1=5$
$A C=10$
Answer. $A B=B C=5, A C=10$

