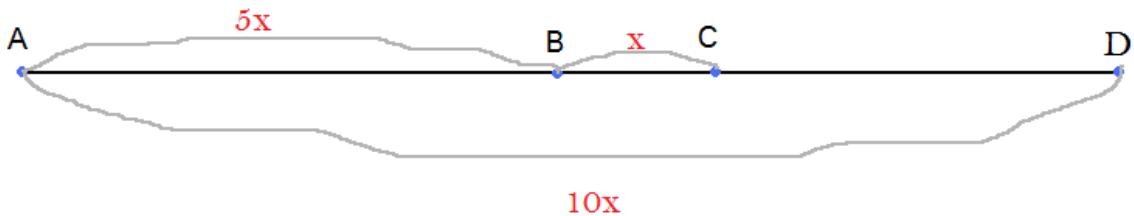


Answer on Question #80307 – Math – Geometry

Question

Four cities lie along a straight highway in the order: City *A*, City *B*, City *C*, and City *D*. The distance from City *A* to City *B* is 5 times the distance from City *B* to City *C*. The distance from City *A* to City *D* is 2 times the distance from City *A* to City *B*. Use the chart to help guide your thoughts as you find this distances/milage between each city. Please do not label your distances in miles. Just enter the milage amount.

Solution



BC is the shortest distance. If $BC = x$, then $AB = 5x$, $AD = 10x$.

$$CD = AD - AB - BC = 4x.$$

Answer: $AB = 5x$, $BC = x$, $CD = 4x$.