



In the figure, how many of the points on line segment PQ have coordinates that are both integers?

- A) 5
- B) 8
- C) 10
- D) 11
- E) 20

Is the following method correct?

1) Find midpoint of PQ, say R

$$R(50/2, 30/2) = R(25, 15)$$

$$\begin{aligned} &\text{x coordinate} - \text{y coordinate} \\ &= 25 - 15 = 10 \end{aligned}$$

If the above method is correct, what does it imply?