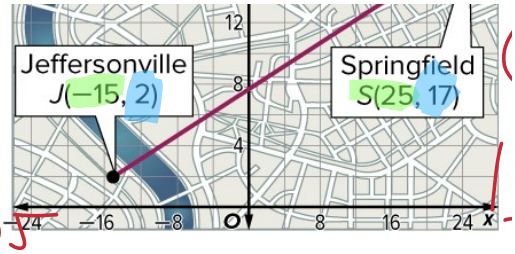
Jeffersonville to Springfield. He plans to stop for a break when the distance he has traveled and the distance he has left to travel have a ratio of 3:7. Where should Andre stop for his break?



A. (13, 12.5) B. (22, 12.5) C. (−3, 6.5) D. (−12, 6.5)

Students, draw anywhere on this slide!

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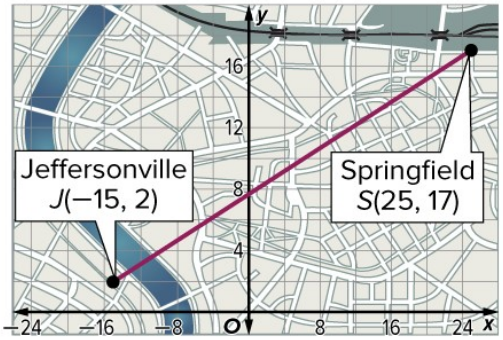
Example 4

Partition a Line Segment on the Coordinate Plane

Check

TRAVEL Andre is traveling from Jeffersonville to Springfield. He plans to stop for a break when the distance he has traveled and the distance he has left to travel have a ratio of 3:7. Where should Andre stop for his break?



A. (13, 12.5) B. (22, 12.5) C. (−3, 6.5) D. (−12, 6.5)

Students, select an option!

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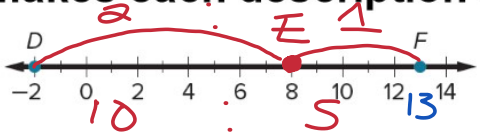
Exit Ticket

Use the number line to find the coordinate of *E* on $\overline{DF}$ that makes each description true.



1. the ratio of *DE* to *EF* is 2:1

2. the ratio of *DE* to *EF* is 2:3

Point *Y* lies on $\overline{XZ}$ with endpoints *X*(−6, 8) and *Z*(18, −8). Find the coordinates of *Y* that make each description true

3. the ratio of XY to YZ is 1:2

4. the ratio of XY to YZ is 3:5

Students, draw anywhere on this slide!

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Exit Ticket

Use the number line to find the coordinate of E on $\overline{DF}$ that makes each description true.

1. the ratio of DE to EF is 2:1 — 8

2. the ratio of DE to EF is 2:3 — 4

Point Y lies on $\overline{XZ}$ with endpoints $X(-6, 8)$ and $Z(18, -8)$. Find the coordinates of Y that make each description true

3. the ratio of XY to YZ is 1:2 — $\left(2, \frac{8}{3}\right)$

4. the ratio of XY to YZ is 3:5 — (3, 2)

Students, draw anywhere on this slide!

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