Find the coordinates of the point P that divides the segment $A(-8, -7), B(8, 5)$ from A to B in the ratio 3 to 1.

1. Write a ratio that expresses the distance of point P along the segment from A to B.

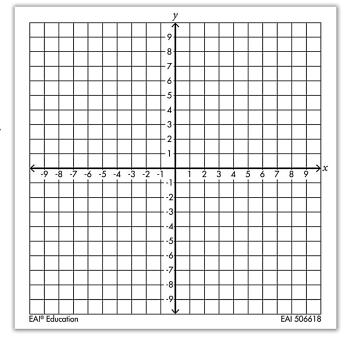   Point P is $\dfrac{\quad}{\quad + \quad}$ = $\dfrac{\quad}{\quad}$ from the distance from A to B.

2. Find the rise over the run of the directed line segment.

   Run = $(x_2 - x_1)$ =

   Rise = $(y_2 - y_1)$ =

3. Use the ratio to find the distance from point A to B.

   of Run =   of Rise =

4. To find the coordinates of P, add the values in step 3 to the coordinates of point A

x −coordinate of point P = y −coordinate of point P =

The coordinates of point P are (,   ).