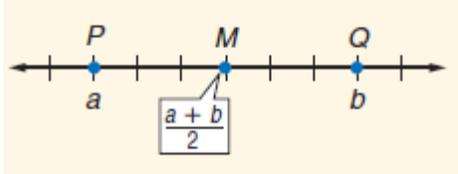
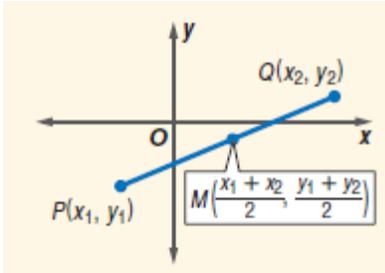


# Midpoint classwork

<p>Definition of Midpoint</p>	<p>The midpoint between two points is their “average” x and y values. That would make sense, because the average is right in the middle!</p>
<p>Midpoint Formulas</p>	<p>1. On a number line <math>\frac{a+b}{2}</math></p>  <p>2. On a coordinate plane <math>\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)</math></p> 

Ex #1: Use the number line below to find the middle, or “average” of each measure.



a)  $AD$

b)  $BE$

c)  $FA$

Ex #2: Find the coordinates of the midpoint of a segment having the given endpoints.

a)  $J(-1, 2), K(6, 1)$

b)  $A(5, 12), B(-4, 8)$

Ex #3: Find the coordinates of X if  $Y(-1, 6)$  is the midpoint of  $\overline{XZ}$  and Z has coordinates  $(2, 8)$ .