

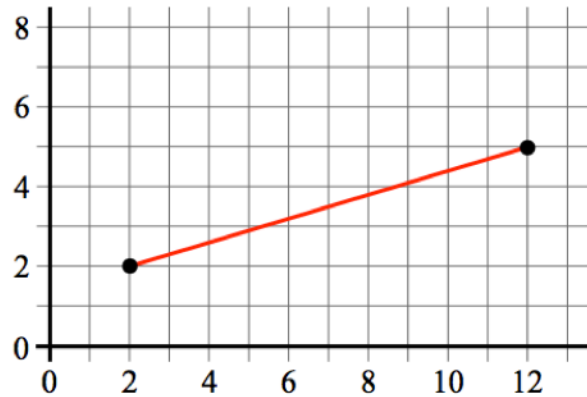


LINE SEGMENTS

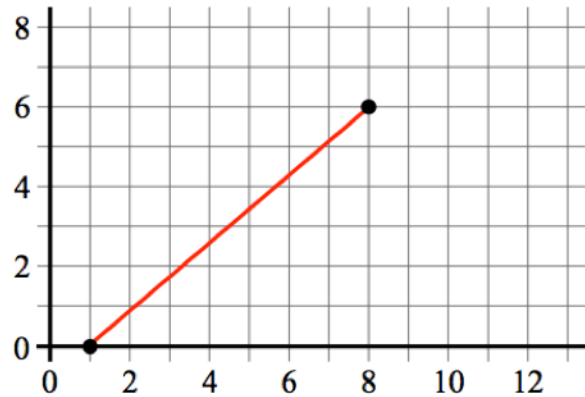
MID-POINTS

Ref: G2B1. **5S1**

A1 Find the coordinates of the midpoint of the line:



A2 Find the coordinates of the midpoint of the line:



A3 Find the coordinates of the midpoint of the line:



B3 Point A has coordinates $(3, 5)$ and point B has coordinates $(15, 1)$. Find the midpoint of AB .

B3 Point C has coordinates $(16, 9)$ and point D has coordinates $(24, 12)$. Find the midpoint of CD .

B1 The midpoint of EF is $(9, 4)$. Point E has coordinates $(2, 1)$. Find the coordinates of point F .

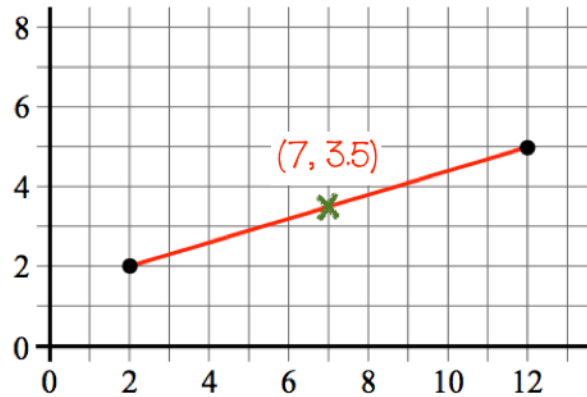


LINE SEGMENTS MID-POINTS

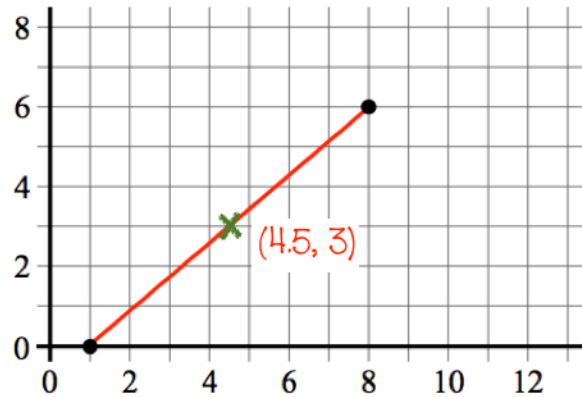
Note that there are several different methods that can be used to get the midpoint - I choose different methods for different types of question.

Ref: G2B1. **5S1**

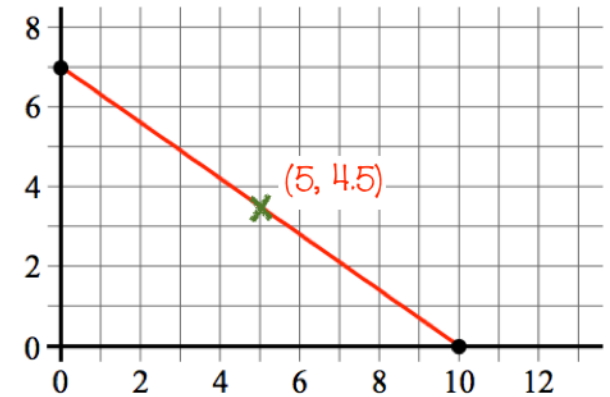
A1 Find the coordinates of the midpoint of the line:



A2 Find the coordinates of the midpoint of the line:



A3 Find the coordinates of the midpoint of the line:



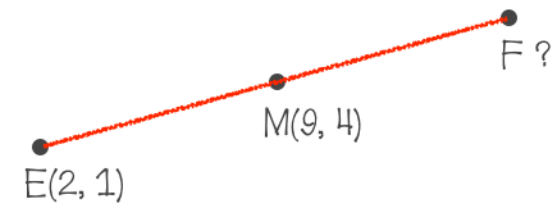
B3 Point *A* has coordinates (3, 5) and point *B* has coordinates (15, 1). Find the midpoint of *AB*.

$$\left(\frac{3+15}{2}, \frac{5+1}{2} \right) = \underline{\underline{(9, 3)}}$$

B3 Point *C* has coordinates (16, 9) and point *D* has coordinates (24, 12). Find the midpoint of *CD*.

$$\left(\frac{16+24}{2}, \frac{9+12}{2} \right) = \underline{\underline{(19, 10.5)}}$$

B1 The midpoint of *EF* is (9, 4). Point *E* has coordinates (2, 1). Find the coordinates of point *F*.



$$F \text{ is point } (9+7, 4+3) = \underline{\underline{(16, 7)}}$$