Name		
Mr. Sc	hlansky	

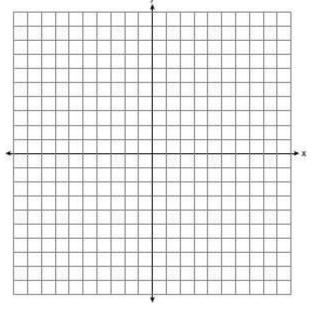
Date	
Geometry	



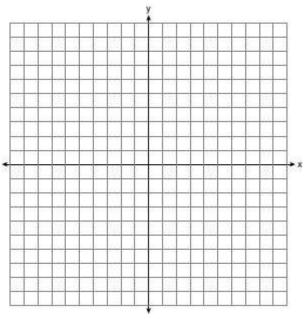
## **Partitions**

1. What are the coordinates of the point on the directed line segment from K(-5,-4) to L(5,1) that partitions the segment into a ratio of 3 to 2?

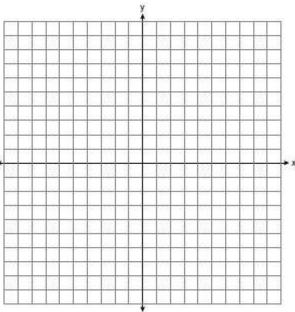
- 1) (-3,-3)
- (-1,-2)
- $(0,-\frac{3}{2})$
- 4) (1,-1)



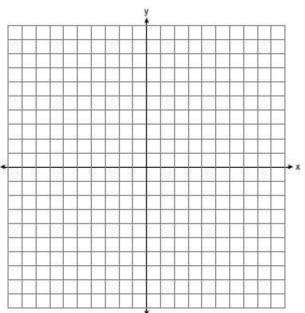
2. Directed line segment PT has endpoints whose coordinates are P(-2, 1) and T(4, 7). Determine the coordinates of point J that divides the segment in the ratio 2 to 1.



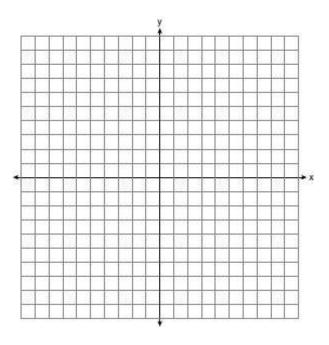
3. The coordinates of the endpoints of  $\overline{AB}$  are A(-6,-5) and B(4,0). Point P is on  $\overline{AB}$ . Determine and state the coordinates of point P, such that AP:PB is 2:3.



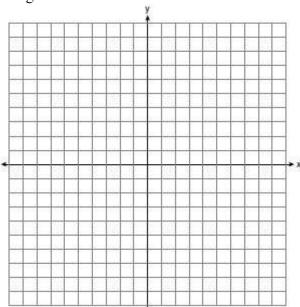
4. The endpoints of  $\overline{DEF}$  are D(-4,4) and F(6,9). Determine and state the coordinates of point E, if DE:EF=2:3.



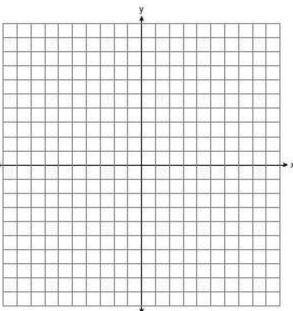
5. What are the coordinates of the point on the directed line segment from G(-4,1) to O(4,5) that partitions the segment into a ratio of 3 to 1?



6. Directed line segment IQ has endpoints whose coordinates are I(-7,8) and Q(-1,-4). Determine the coordinates of point J that divides the segment in the ratio 1 to 5.



7. What are the coordinates of the point on the directed line segment from P(-1,6) to S(5,3) that partitions the segment into a ratio of 1 to 2?



8. Directed line segment JQ has endpoints whose coordinates are J(8,6) and Q(-10,-3). Determine the coordinates of point O that divides the segment in the ratio 5 to 4.

