Name:	
GCC Unit 5 Day 7	Ratios a

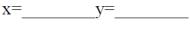
Ratios and Similarity

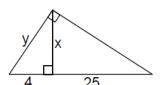




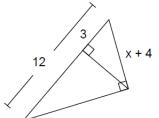
Geometric Mean: Lesson U5D4, U5D5, U5D6

#1: Solve for the value of x and y.





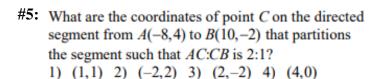
Solve for the value of x.

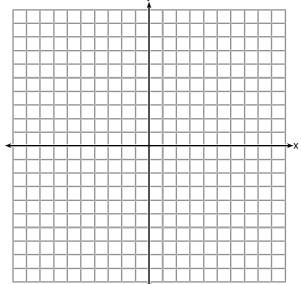


#2: Line segment NY has endpoints N(-11,5) and Y(5,-7). What is the equation of the perpendicular bisector of \overline{NY} ?

#3: Point P is on segment AB such that AP:PB is 4:5. If A has coordinates (4,2), and B has coordinates (22,2), determine and state the coordinates of P. #4: Point P is on the directed line segment from point X(0, -5) to point Y(6,7) and divides the segment in the ratio 1:5. What are the

coordinates of point P?





#6: Show how you arrived at your response!

The ratio of similarity of $\triangle BOY$ to $\triangle GRL$ is 1:2. If BO = x + 3 and GR = 3x - 1, then the length of \overline{GR} is

(1) 5

(3) 10

(2) 7

(4) 20

#7: Two Δ are similar. The sides of the first Δ are 5, 10, and 15. The largest side of the second Δ is 20. Find the perimeter of the second Δ .

#8: The areas of two similar polygons are in the ratio 36:49. Find the ratio of the corresponding sides.

#9: The perimeters of two similar triangles is in the ratio 2: 4. The sum of their areas is 100 cm². Find the area of each triangle.