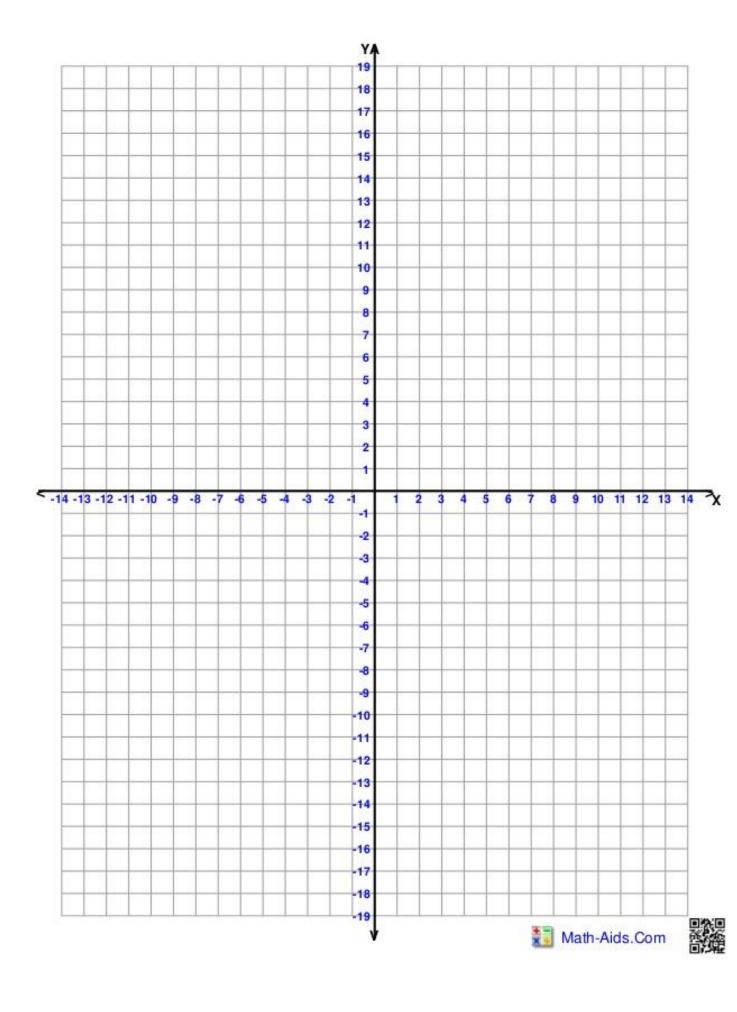
Grade 7/8 Math Plotting and Pythagorean Theorem Work

Name:		Class:	Date:			
On th	e Cartesian Plane provide	ed, plot the fo	ollowing points:			
A(5, 17)		B(5, 5)		C(-11, 17)		
D(-11, 5)		E(-6, 5)		F(-11, -3)		
G(5, -3)		H(13, -3)		I(13, -10)		
*Make sure you are labelling each p		ooint with the	letter and the coordin	ate pair.		
1)	Find the distance for eac	h of the segr	nents			
	AB	BD				
Now, use a folded copy of the Cartesian Plane and use it as a ruler to find the distance of AD Now, use the Pythagorean Theorem to calculate the AD distance (use AB distance for A and BD distance for B to get C).						
AD _{Pyt}	h					
2)	Find the distance for each of the segments					
	CD	DE				
Now, use a folded copy of the Cartesian Plane and use it as a ruler to find the distance of CE Now, use the Pythagorean Theorem to calculate the AD distance (use CD distance for A and DE distance for B to get C).						

CE_{Pyth} - _____.



3)	Find the distance for each of the segments					
	FH	HI				
Now, use a folded copy of the Cartesian Plane and use it as a ruler to find the distance of FI Now, use the Pythagorean Theorem to calculate the AD distance (use HI distance for A and FH distance for B to get C). FI _{Pyth}						
These show how the Pythagorean Theorem is accurate in calculating the hypotenuse of a right triangle.						
Use this to calculate the distance between any two points on the Cartesian Plane.						
Find the distance between each of these points:						
CB		Show your work here:	$A^2 + B^2 = C^2$			
(use the horizontal and vertical differences to get A and B)						
AF						

CI - _____

