Content Standard		MAFS.6.G Geometry					
		MAFS.6.G.1 Solve real-world and mathematical problems involving area, surface area and volume					
		<i>MAFS.6.G.1.3</i> Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.					
Assessment Limits		Can use rational numbers.					
		Can use all four quadrants.					
		When finding side length, limit polygons to traditional orientation (side lengths perpendicular to axes).					
Calculator		No					
Acceptable		Equation Response					
Response		Graphic Response — Drawing					
Mechanisms		Multiple Choice Response					
Context Allowable							
Example							
Points spread across 2 guadrants							
 Fouris spicau across 2 quadrants. Include a decimal value for one coordinate (eith 				(either x or y coordinate)			
	Use 4	 Use 4 points. 					
Context	Itext Use only whole numbers.						
easier	All points	points located in 1 quadrant					
		A points					
	USE 5- 4 k						
Cantant	Limit to shapes with vertical and horizontal lines or triangles.						
Context	Use more	Use more than 4 points.					
difficult	Use a combination of whole numbers and decimals (more than one value is decimal).						
anneare	Points sp	read across 3-4 quadr	ants.				
Sample Item Stem			Response	Notes, Comments			
		Mechanism					
A set of points is shown.			Graphic				
			Response —				
(-5, 1), (-2, 1), (-5, 4), (-2, 4)			Drawing				
Use the Connect Line tool to draw the							
quadrilateral created by the points.							
A set of points is shown.			Graphic				
			Response —				
(-1, 2.5), (-2, -2), (-6, -4), (-4, 0)			Drawing				
lico the (Use the Connect Line tool to draw the						
polygon created by the points.							

A set of points is shown.	Graphic	
	Response —	
(5 1 5) (0 2 5) (-1 5 -6) (4 -3) (-4 5	Drawing	
1 5)	Drawing	
1.5)		
Use the Connect Line tool to draw the		
polygon created by the points.		
A set of points is shown	Multinle	
	Chaine	
	Choice	
(5, 1.3), (5, -4), (2, 1.3), (2, -4)	Response	
Conrad connects the points to a		
nolygon Which shape did he get?		
polygon. Which shape did he get:		
A. Rectangle		
B. Square		
C. Parallelogram		
D Tranezoid		
Kenred draws a square Two of its	Craphic	
	Graphic	
vertices are at (2, 7) and (6, 3).	Response —	
Use the Connect Line tool to draw	Drawing	
Konrad's square on the coordinate grid.		
Konrad draws a parallelogram. Three of	Graphic	
the vertices are located at (-6, 4), (-3,	Response-	
1), and (5, 4).	Drawing	
Use the Connect Line tool to draw the		
narallelogram		
	- I.	
Konrad draws a quadrilateral with one	Graphic	
pair of parallel sides. Two of the	Response —	
vertices are (3, 1) and (-5, -4). Use the	Drawing	
Connect Line tool to draw Konrad's	0	
guadrilatoral		
quaumaterai.		
Kanrad draws a rastanala	Cranhia	
Konrad draws a rectangle.	Graphic	·
 Two of the vertices are (2, 7) and 	Response —	
(7, 7).	Drawing	
• The perimeter of the rectangle is 16		
unite		
uillos		
Use the connect Line tool to draw a		
possible rectangle that could be		
Konrad's.		

Konrad has drawn a triangle on a	Graphic	
coordinate grid.	Response —	
• One of the vertices is located at (-1,	Drawing	
-2).		
• A second vertex has x-coordinate of		
7 and a positive y-coordinate.		
• The area of the triangle is 20 square		
units.		
Use the Connect Line tool to draw a		
possible triangle that could be		
Konrad's.		