Pumpkin Graph Directions for Teachers

Use 1 cm grid paper.

Free grid paper is available at http://www.incompetech.com

There are 4 versions for this pumpkin graph.

Page 3 – Quadrant 1 (All points are given)

Page 4 – Quadrant 1

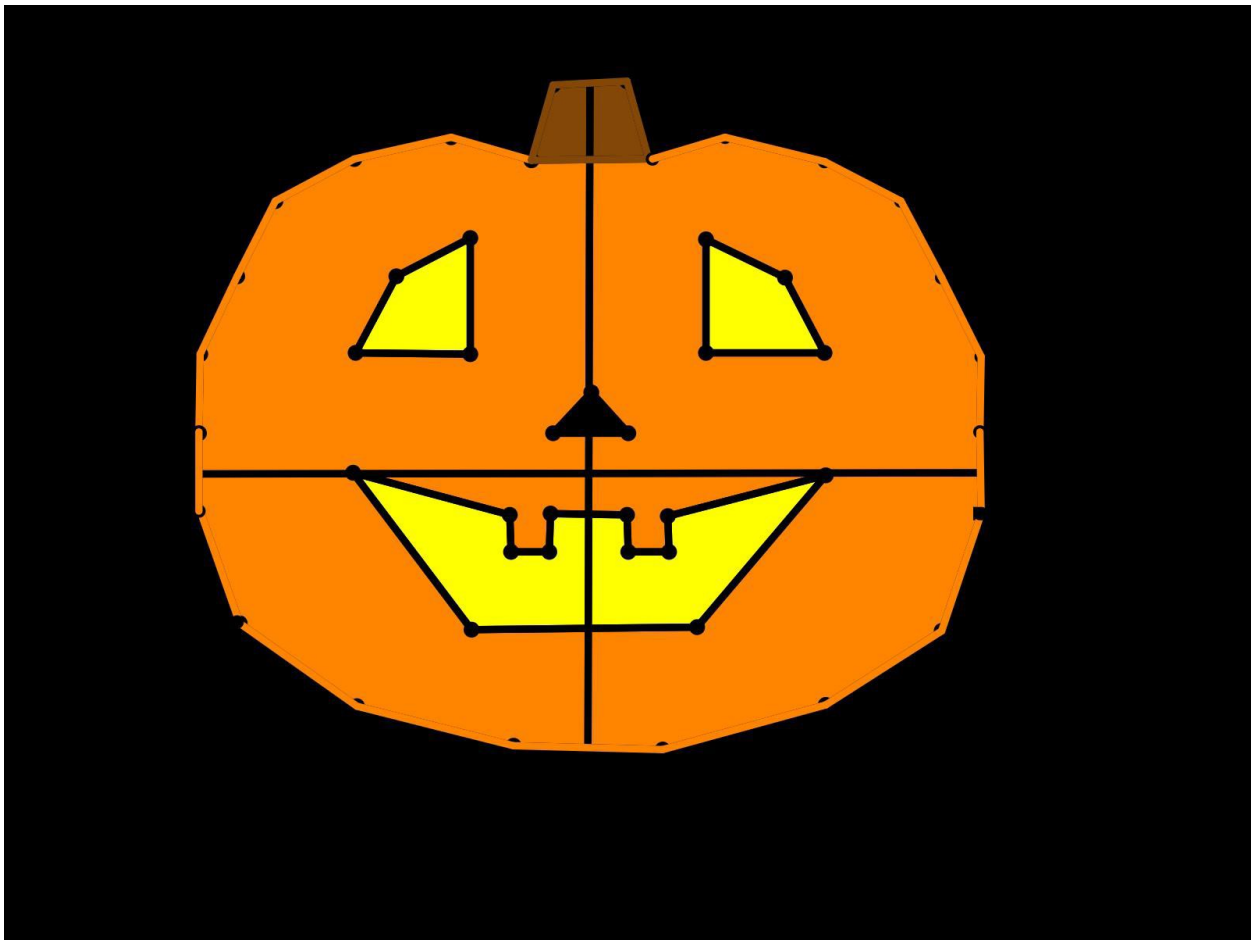
(All points are given but students don't know what the image is)

Page 5 – Use a 4 Quadrant Graph

(Students must determine half the points to reflect the image)

Page 6 – Use a 4 Quadrant Graph

(Students must determine half the points to reflect the image and they don't know what the image is)



Name: _____ Pd: _____ Date: _____

Pumpkin Graph

Head

Connect
(12, 26)
(13, 26)
(13.5, 24)
(15.5, 24.5)
(18, 24)
(20, 23)
(21, 21)
(22, 19)
(22, 15)
(21, 12)
(18, 10)
(14, 9)
(10, 9)
(6, 10)
(3, 12)
(2, 15)
(2, 19)
(3, 21)
(4, 23)
(6, 24)
(8.5, 24.5)
(10.5, 24)
(11, 26)
(12, 26)
Stop

Eyes

Connect
(15, 19)
(15, 22)
(17, 21)
(18, 19)
(15, 19)
Stop
Connect
(9, 19)
(9, 22)
(7, 21)
(6, 19)
(9, 19)
Stop

Nose

Connect
(12, 18)
(13, 17)
(11, 17)
(12, 18)
Stop

Mouth

Connect
(6, 16)
(10, 15)
(10, 14)
(11, 14)
(11, 15)
(13, 15)
(13, 14)
(14, 14)
(14, 15)
(18, 16)
(15, 12)
(9, 12)
(6, 16)
Stop

Name: _____ Pd: _____ Date: _____

_____ Graph

_____

Connect
(12, 26)
(13, 26)
(13.5, 24)
(15.5, 24.5)
(18, 24)
(20, 23)
(21, 21)
(22, 19)
(22, 15)
(21, 12)
(18, 10)
(14, 9)
(10, 9)
(6, 10)
(3, 12)
(2, 15)
(2, 19)
(3, 21)
(4, 23)
(6, 24)
(8.5, 24.5)
(10.5, 24)
(11, 26)
(12, 26)
Stop

_____

Connect
(15, 19)
(15, 22)
(17, 21)
(18, 19)
(15, 19)
Stop
Connect
(9, 19)
(9, 22)
(7, 21)
(6, 19)
(9, 19)
Stop

_____

Connect
(12, 18)
(13, 17)
(11, 17)
(12, 18)
Stop

_____

Connect
(6, 16)
(10, 15)
(10, 14)
(11, 14)
(11, 15)
(13, 15)
(13, 14)
(14, 14)
(14, 15)
(18, 16)
(15, 12)
(9, 12)
(6, 16)
Stop

Name: _____ Pd: _____ Date: _____

Pumpkin Graph

Connect	Reflect	Connect	| |	Connect	Reflect	Connect
(0, 10)	→		| |	**(0, -1)**	→	
(1, 10)	→		| |	**(1, -1)**	→	
(1.5, 8)	→		| |	**(1, -2)**	→	
(3.5, 8.5)	→		| |	**(2, -2)**	→	
(6, 8)	→		| |	**(2, -1)**	→	
(8, 7)	→		| |	**(6, 0)**	→	
(9, 5)	→		| |	**(3, -4)**	→	
(10, 3)	→		| |	**(0, -4)**	→	
(10, 1)	→		| |	**Stop**		
(10, -1)	→		| |	**Connect**		
(9, -4)	→		| |	**(0, 2)**	→	
(6, -6)	→		| |	**(1, 1)**	→	
(2, -7)	→		| |	**(0, 1)**	→	
(0, -7)	→		| |			
Stop			| |			
Connect			| |			
(3, 3)	→		| |			
(3, 6)	→		| |			
(5, 5)	→		| |			
(6, 3)	→		| |			
(3, 3)	→		| |			
Stop	→		| |			
Continue	**Next**	**Column**	| |			

(c)kt

Name: _____ Pd: _____ Date: _____

_____ Graph

Connect	Reflect	Connect	| |	Connect	Reflect	Connect
(0, 10)	→		| |	**(0, -1)**	→	
(1, 10)	→		| |	**(1, -1)**	→	
(1.5, 8)	→		| |	**(1, -2)**	→	
(3.5, 8.5)	→		| |	**(2, -2)**	→	
(6, 8)	→		| |	**(2, -1)**	→	
(8, 7)	→		| |	**(6, 0)**	→	
(9, 5)	→		| |	**(3, -4)**	→	
(10, 3)	→		| |	**(0, -4)**	→	
(10, 1)	→		| |	**Stop**		
(10, -1)	→		| |	**Connect**		
(9, -4)	→		| |	**(0, 2)**	→	
(6, -6)	→		| |	**(1, 1)**	→	
(2, -7)	→		| |	**(0, 1)**	→	
(0, -7)	→		| |			
Stop			| |			
Connect			| |			
(3, 3)	→		| |			
(3, 6)	→		| |			
(5, 5)	→		| |			
(6, 3)	→		| |			
(3, 3)	→		| |			
Stop	→		| |			
Continue	**Next**	**Column**	| |			

(c)kt

Pumpkin Graph Directions and Rubric

_____ (10 Points)

Number the horizontal axis from -10 to 10.

_____ (10 Points)

Number the vertical axis from -10 to 10.

_____ (20 Points)

Plot and connect the given points.

_____ (40 Points)

Write the reflection of each point.

_____ (20 Points)

Plot and connect the points to make the reflection.

_____ Total

(c)kt

Pumpkin Graph Answer Key

Connect	Reflect	Connect	| |	Connect	Reflect	Connect
(0, 10)	→	**(0, 10)**	| |	**(0, -1)**	→	**(0, -1)**
(1, 10)	→	**(-1, 10)**	| |	**(1, -1)**	→	**(-1, -1)**
(1.5, 8)	→	**(-1.5, 8)**	| |	**(1, -2)**	→	**(-1, -2)**
(3.5, 8.5)	→	**(-3.5, 8.5)**	| |	**(2, -2)**	→	**(-2, -2)**
(6, 8)	→	**(-6, 8)**	| |	**(2, -1)**	→	**(-2, -1)**
(8, 7)	→	**(-8, 7)**	| |	**(6, 0)**	→	**(-6, 0)**
(9, 5)	→	**(-9, 5)**	| |	**(3, -4)**	→	**(-3, -4)**
(10, 3)	→	**(-10, 3)**	| |	**(0, -4)**	→	**(0, -4)**
(10, 1)	→	**(-10, 1)**	| |	**Stop**		
(10, -1)	→	**(-10, -1)**	| |	**Connect**		
(9, -4)	→	**(-9, -4)**	| |	**(0, 2)**	→	**(0, 2)**
(6, -6)	→	**(-6, -6)**	| |	**(1, 1)**	→	**(-1, 1)**
			| |	**(0, 1)**	→	**(0, 1)**
(2, -7)	→	**(-2, -7)**	| |	**Stop**		
(0, -7)	→	**(0, -7)**	| |			
Stop			| |			
Connect			| |			
(3, 3)	→	**(-3, 3)**	| |			
(3, 6)	→	**(-3, 6)**	| |			
(5, 5)	→	**(-5, 5)**	| |			
(6, 3)	→	**(-6, 3)**	| |			
(3, 3)	→	**(-3, 3)**	| |			
Stop			| |			
Continue	**Next**	**Column**	| |			

Directions for Teachers

Rubrics can be printed on the back of the worksheet.

Use 1 cm grid paper.

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