

Name: _____

Date: _____

Find the Clusters

Round 1

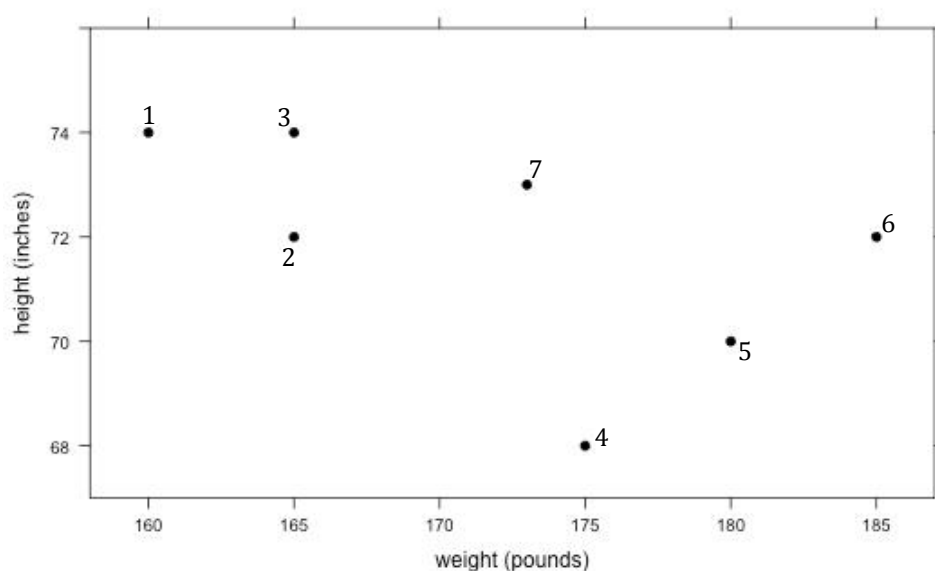
Pick random points for your initial cluster means.

Cluster A mean: (_____, _____)

Cluster B mean: (_____, _____)

Plot your two points for A and B on the graph below.

Then, draw a line from each observation (1 through 7) to both of those points.



For each observation, determine if the distance to point A or point B is smaller and record that grouping in the table below.

Obs	Point	Cluster
1	(160, 74)	
2	(165, 72)	
3	(165, 74)	
4	(175, 68)	
5	(180, 70)	
6	(185, 72)	
7	(173, 73)	

Find the mean x- and y-values for the observations that were assigned to Cluster A.

New Cluster A mean: (_____, _____)

Find the mean x- and y-values for the observations that were assigned to Cluster B.

New Cluster B mean: (_____, _____)

Plot your new A and B points in the Round 2 graph (on the next page).

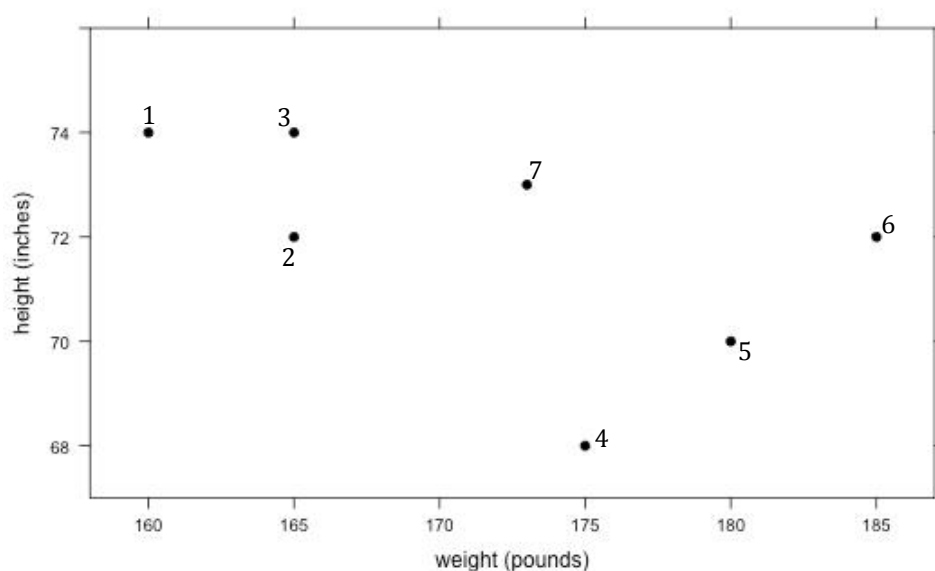
Name: _____

Date: _____

Find the Clusters

Round 2

Using the new means for Cluster A and Cluster B, draw a line from each observation (1 through 7) to both of those points.



For each observation, determine if the distance to point A or point B is smaller and record that grouping in the table below.

Obs	Point	Cluster
1	(160, 74)	
2	(165, 72)	
3	(165, 74)	
4	(175, 68)	
5	(180, 70)	
6	(185, 72)	
7	(173, 73)	

Did any of the observations change clusters from Round 1?

If yes,

Which observations? _____

New Cluster A mean: (_____, _____)

New Cluster B mean: (_____, _____)

Plot your new A and B points in the Round 3 graph (on the next page).

If no, circle the two cluster groups on the plot above.

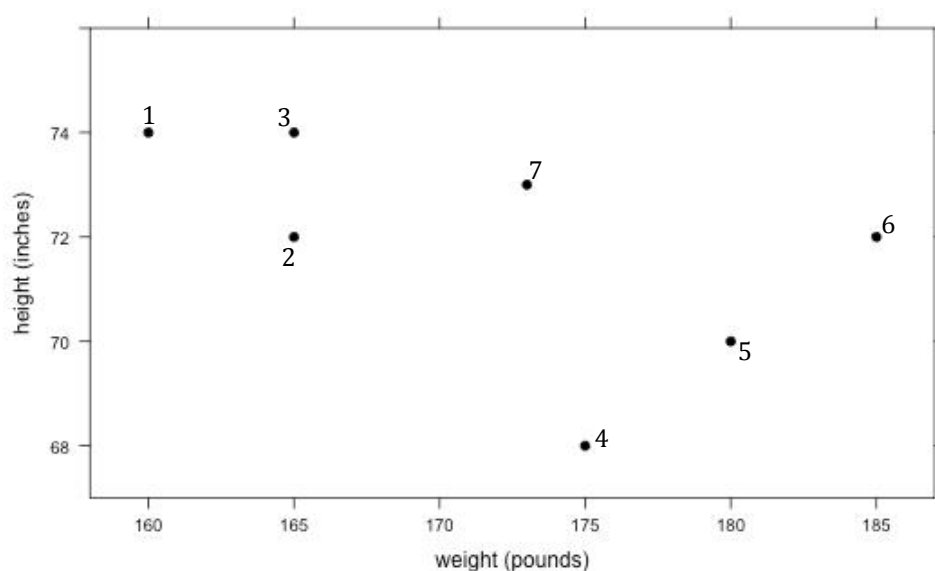
Name: _____

Date: _____

Find the Clusters

Round 3

Using the new means for Cluster A and Cluster B, draw a line from each observation (1 through 7) to both of those points.



For each observation, determine if the distance to point A or point B is smaller and record that grouping in the table below.

Obs	Point	Cluster
1	(160, 74)	
2	(165, 72)	
3	(165, 74)	
4	(175, 68)	
5	(180, 70)	
6	(185, 72)	
7	(173, 73)	

Did any of the observations change clusters from Round 2?

If yes,

Which observations? _____

New Cluster A mean: (_____, _____)

New Cluster B mean: (_____, _____)

Plot your new A and B points in the Round 4 graph (on the next page).

If no, circle the two cluster groups on the plot above.

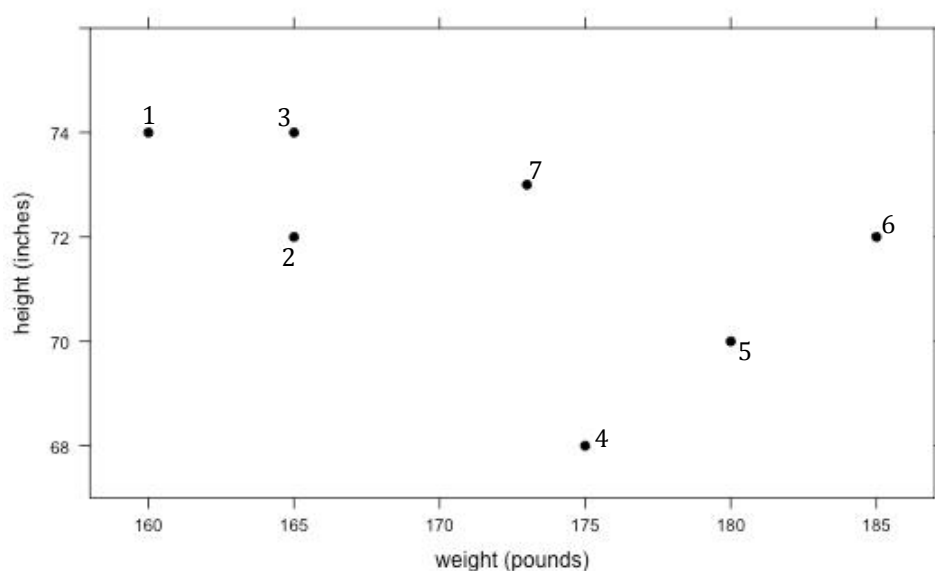
Name: _____

Date: _____

Find the Clusters

Round 4

Using the new means for Cluster A and Cluster B, draw a line from each observation (1 through 7) to both of those points.



For each observation, determine if the distance to point A or point B is smaller and record that grouping in the table below.

Obs	Point	Cluster
1	(160, 74)	
2	(165, 72)	
3	(165, 74)	
4	(175, 68)	
5	(180, 70)	
6	(185, 72)	
7	(173, 73)	

Did any of the observations change clusters from Round 3?

If yes,

Which observations? _____

New Cluster A mean: (_____, _____)

New Cluster B mean: (_____, _____)

Plot your new A and B points in the Round 5 graph (on the next page).

If no, circle the two cluster groups on the plot above.

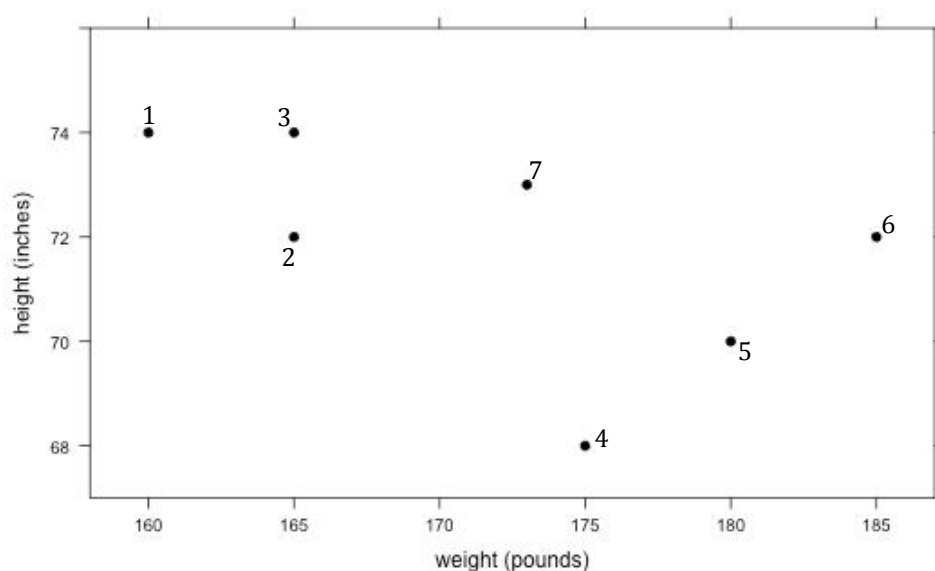
Name: _____

Date: _____

Find the Clusters

Round 5

Using the new means for Cluster A and Cluster B, draw a line from each observation (1 through 7) to both of those points.



For each observation, determine if the distance to point A or point B is smaller and record that grouping in the table below.

Obs	Point	Cluster
1	(160, 74)	
2	(165, 72)	
3	(165, 74)	
4	(175, 68)	
5	(180, 70)	
6	(185, 72)	
7	(173, 73)	

Did any of the observations change clusters from Round 4?

If yes,

Which observations? _____

New Cluster A mean: (_____, _____)

New Cluster B mean: (_____, _____)

Plot your new A and B points in the Round 5 graph (on the next page).

If no, circle the two cluster groups on the plot above.