Trimester 3 Project

By: Madison and Paige

1st Data Set:
Holding Handstands!

- For our **first data set**, we each decided to hold a handstand for as many seconds as we could.

- We each repeated this 11 times!

1st Data Set: Holding Handstands!

Madison

Trial	1	2	3	4	5	6	7	8	9	10	11
Results (in seconds)	**16**	**12**	**20**	**18**	**16**	**5**	**14**	**10**	**12**	**17**	**15**

Paige

Trial	1	2	3	4	5	6	7	8	9	10	11
Results (in seconds)	**7**	**5**	**8**	**15**	**12**	**13**	**8**	**4**	**8**	**11**	**6**

2nd Data Set:
Walking Handstands!

- For our **second data set**, we each decided to see how many steps we could take in a handstand!

- We each repeated this 11 times!

2nd Data Set: Walking Handstands!

Madison

Trial	1	2	3	4	5	6	7	8	9	10	11
Results (# of steps)	**41**	**30**	**47**	**38**	**32**	**39**	**41**	**35**	**48**	**28**	**45**

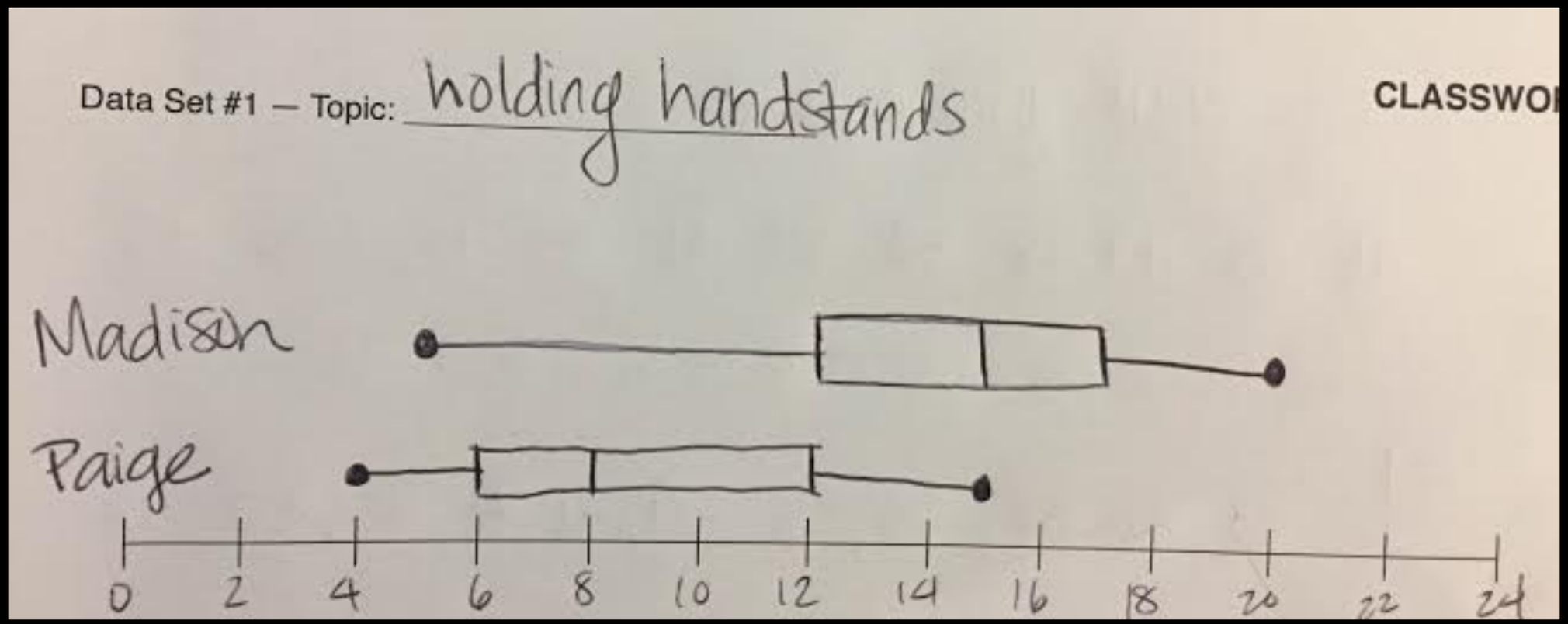
Paige

Trial	1	2	3	4	5	6	7	8	9	10	11
Results (# of steps)	**16**	**12**	**10**	**18**	**11**	**15**	**7**	**19**	**10**	**17**	**12**

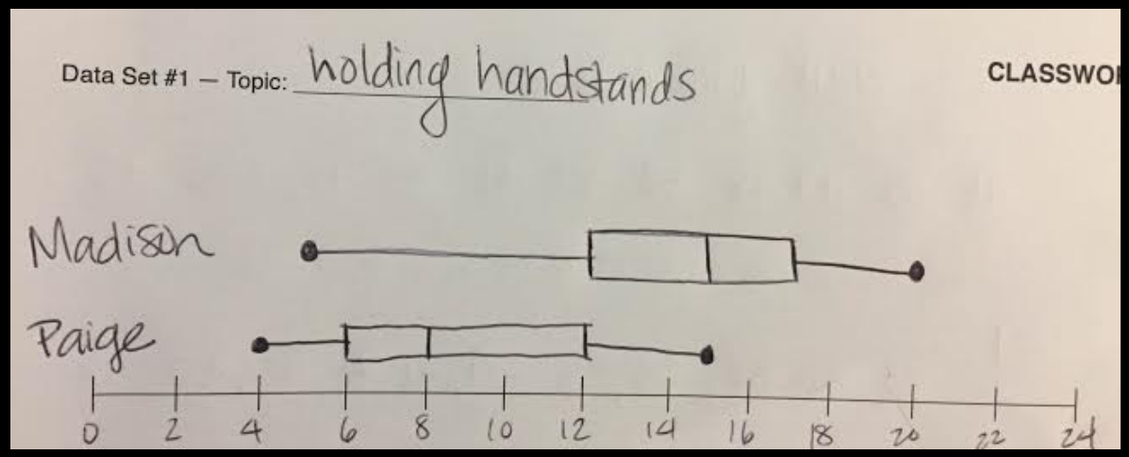
Calculation Results!

	Madison Data 1	Madison Data 2	Paige Data 1	Paige Data 2
Median	15	39	8	12
Lowest Value	5	28	4	7
Highest Value	20	48	15	19
Lower Quartile	12	32	6	10
Upper Quartile	17	45	12	17
Mean	14.1	38.5	8.8	13.4
MAD	2.4	3.8	2.3	2.7

Comparing Data, Data Set 1:
Holding Handstand!



Comparing Data, Data Set 1:
Holding Handstand!

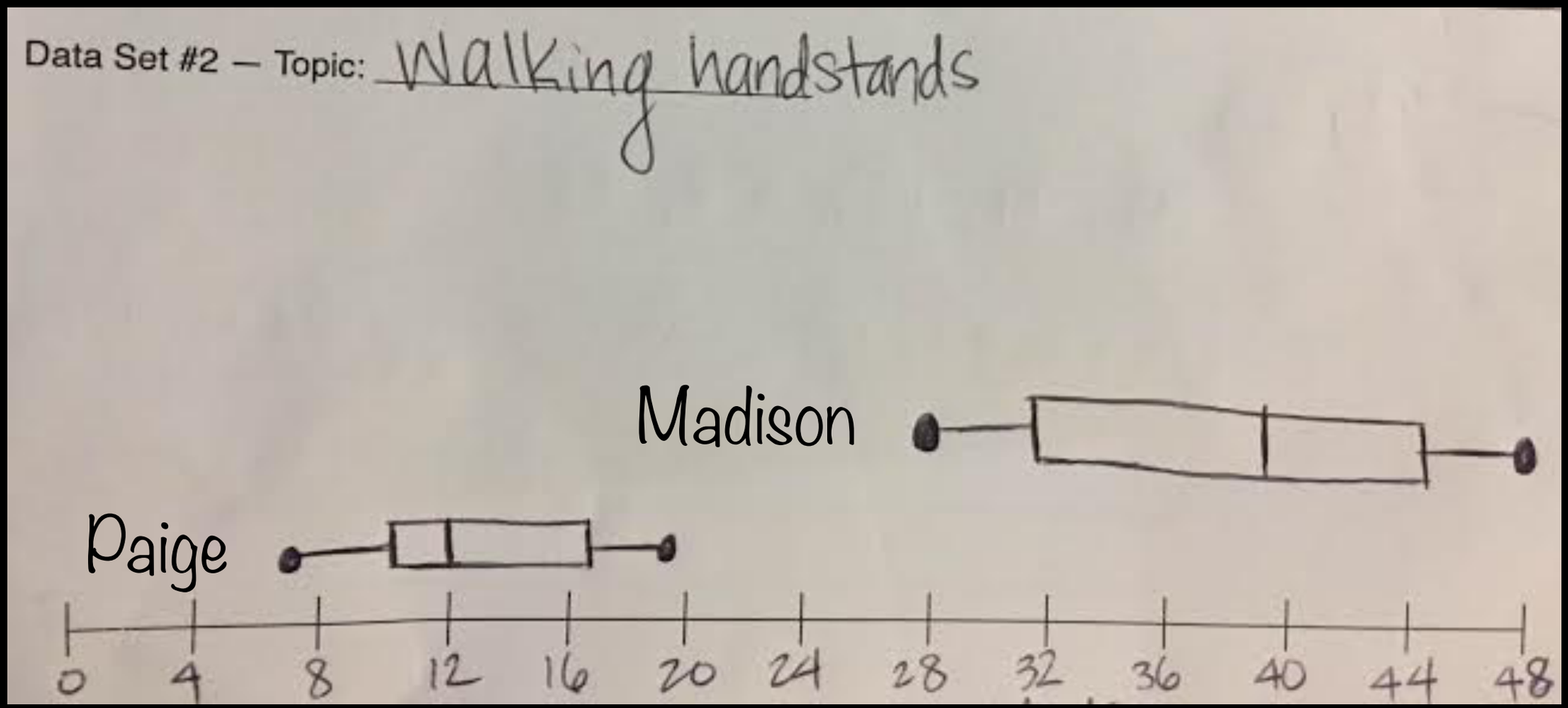


1. **Which partner's data set has a higher distribution of values?** Madison

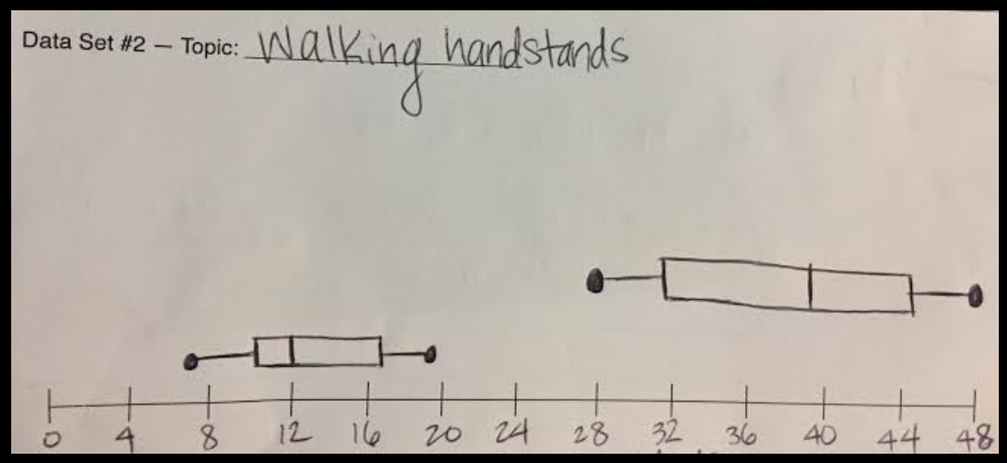
2. **Which partner's data set has a higher variability?** Madison, because her data ranges from 5 to 20 (range = 15), and Paige's ranges from 4 to 15 (range = 11)

3. **What do you think could be the reason why you and your partner's data is so different?** Madison practices handstands each week, while Paige only does them every once and a while. Also, Paige was wearing heels and a more restricting shirt which made it harder to do handstands.

Comparing Data, Data Set 2: Walking Handstand!



Comparing Data, Data Set 2: Walking Handstand!



1. **Which partner's data set has a higher distribution of values?** Madison

2. **Which partner's data set has a higher variability?** Madison, because her data ranges from 28 to 48 (range = 20), and Paige's ranges from 7 to 19 (range = 12)

3. **What do you think could be the reason why you and your partner's data is so different?** Madison is the queen of walking on her hands and can never be defeated.

Definitions!

- **<u>MAD (Mean Absolute Deviation)</u>** = DO YOU OWN RESEARCH!
- **<u>Variability</u>** = DO YOU OWN RESEARCH!
- **<u>Distribution</u>** = DO YOU OWN RESEARCH!