

1. Get your statistics folder

2. Get one paper from the front desk (each person will need one)

3. Problem of the Day

Complete number one on your paper (only complete the "**with the outlier**" column, this means you will use all of the numbers like normal)

We will learn what an OUTLIER is TODAY

1) 3, 2, 6, 4, 3, 5, 16

with

	5.57
	4
	3
	14

mean -

$$3+2+6+4+3+5+16=39$$

$$39 \div 7 = 5.57$$

median

~~2~~, 3, 3, 4, ~~5~~, ~~6~~, ~~16~~

mode

range $16-2=14$

Outlier

Value that is much higher or lower than all of the rest!

22, 26, 31, 37, 31, 26, 50, 28, 24

outlier

:

1) 3, 2, 6, 4, 3, 5, 16

w/out	with
3.83	5.57
3.5	4
3	3
4	14

w/out
mean

$$3+2+6+4+3+5=23$$

$$23 \div 6 = 3.83$$

$$6 \sqrt{23}$$

median

2, 3, 4, 5, 6

$$7 \div 2 = 3.5$$

mode

range

$$6 - 2 = 4$$

large

Outlier increases mean, median, and range

2

5

5 - smaller

2)

with Out	with
18.83	16.86
18.5	18
17	17
5	17

Smaller skewed
the mean, median,
and range smaller