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Exponent Basics (1.2)

Created by Mr. Lischwe
Warmup 4/(2 $\left.2^{3}+3^{2}-3 \cdot 2\right)$
What type of correlation would you expect??? Explain your answer.
I) \# of hours of sleep you got vs. your energy level
2) \# of hit songs a musical artist has and \# of people that go to their concerts
3) \# of minutes spent doing a test and \# of questions left on the test
4) Please get a calculator. What are you going to do at the end of class with this calculator?
5) You do not need a ruler today, but if you get one, what are you going to do at the end of class?

## Numerical Data

Which of these are numerical data?

- Age
- Height
- Favorite Color
- Name
- \# of letters in name
- Street you live on
- Distance you live from school

| Warmup $4 /\left(2^{3}+3^{2}-3 \cdot 2\right)$ |
| :--- | :--- |
| What type of correlation would you expect??? |
| Explain your answer. |
| 1)\# of hours of sleep you got vs. your energy <br> level |
| 2)\# of hit songs a musical artist has and \# of <br> people that go to their concerts <br> \# of minutes spent doing a test and \# of <br> questions left on the test |
| 4)Please get a calculator.What are you going to <br> do at the end of class with this calculator? <br> You do not need a ruler today, but if you get <br> one, what are you going to do at the end of <br> class? |
| 5) |



## A scatter plot compares NUMERICAL data

- Age vs. Height
- \# of letters in name vs. your grade in science
- Time you wake up vs. amount of time it takes you to get ready


## What if it's NOT numerical data???

- Is there a relationship between hair color and eye color? For example, are blondes more likely to have blue eyes???

You would set up a frequency table
Hair Color


|  |  |
| :--- | :--- |
|  |  |
|  | See Guided Notes |
|  | FREQUENCY |
|  |  |

Is there an association between school and involvement in sports???

- In other words:Are the students at one school more likely to participate in sports than students at the other school?

|  | Sports | No Sports |
| :--- | :--- | :--- |
| Bluffington High 400 500 <br> Bayside High 900 1800 |  |  |
| \% of Bluffington High who do sports: $\frac{400}{900} \approx 44 \%$ <br> \% of Bayside High who do sports: $\frac{900}{2700} \approx 33 \%$ <br> Bluffington High students are MORE LIKELY to <br> participate in sports!!! <br> PORTANT***: To find if there is an association, <br> the percentages, not just the raw numbers!!! |  |  |

