Scatterplots & Correlation Agenda Warm-Up Tuesday

Reminders

Notes Unit 5

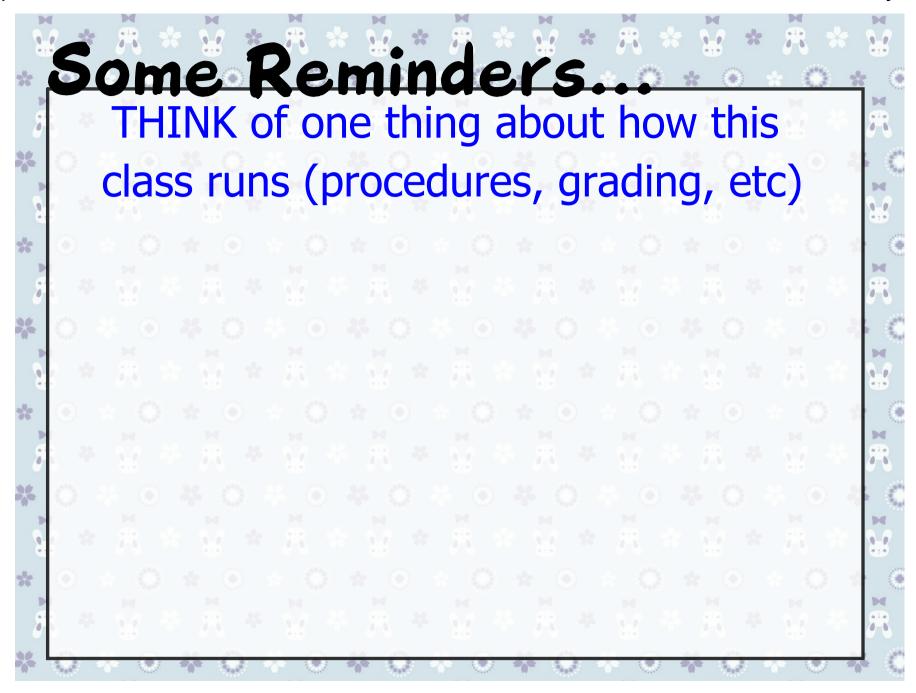
HW: #1-8

Reminders

Quiz Friday!

Essential Question

How can I tell the correlation between two variables? Find your new seat. At your table, write one school-appropriate thing your shoulder partner did over the break.



On page 67 set up unit 5 in your notebook.

PAGE 66 IS BLANK!

Put your "5" tab on page 67 (fold along the dotted line)

67



Page #	Page Title
68	WWK/Correlation

You may start a new notebook but it must be at the beginning of a unit. There will be a quick notebook check tomorrow.

Scatterplots & Correlation p.68

Essential Question

How can I tell the correlation between two variables?

Fold the blue paper so it looks like below. Cut the flaps in between.

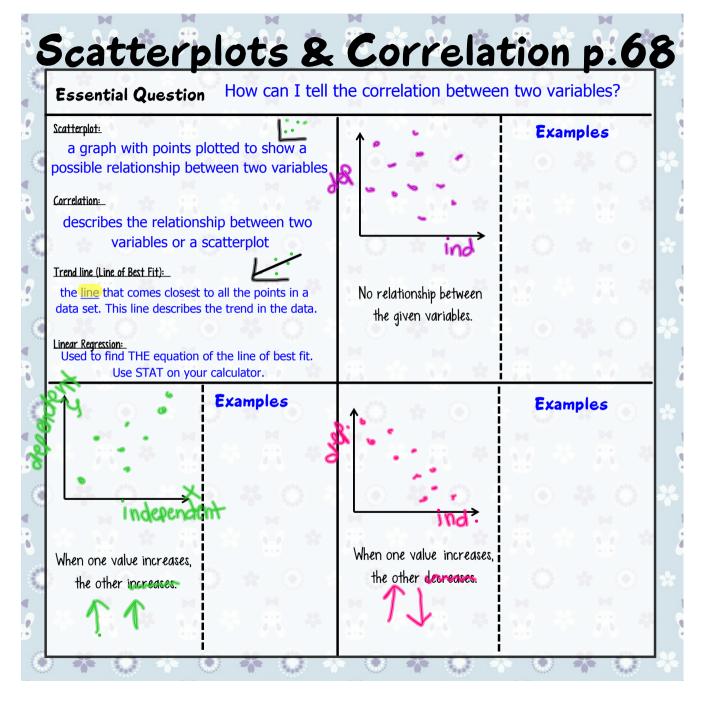
Unit 5
Words
Worth
Knowing

No Correlation

COLLEGIOR ON

Correlative

Scatterplots & Correlation p.68 How can I tell the correlation between two variables? **Essential Question** Unit 5 No Words Correlation Worth Knowing COLLEGISTE OU Correlative dion



Scatterplots & Correlation p.68

Decide whether the relationships below represent positive, negative or no correlation. Write each example down on the appropriate section of your foldable. Only write in pencil unless you are positive you are correct!! Temperature and number of people wearing jackets.

- How tall a person is and how fast they drive Nov
- A person's height and a person's age
- Hours in the mall vs. amount of money spent
- Weight on a skateboard vs. speed of the skateboard
- Hours of studying vs. grades
- Test scores vs. shoe sizes
- Distance traveled vs. amount of gas in the car
- Number of days absent from school vs. math average
- Number of pets a person has and number of books a person has read
- Education and income

Scatterplots & Correlation p.68

No Correlation

- How tall a person is and how fast they drive
- Test scores vs. shoe sizes
- Number of pets a person has and number of books a person has read

Positive Correlation

- Hours of studying vs. grades
- A person's height and a person's age
- Hours in the mall vs. amount of money spent
- Education and income

Negative Correlation

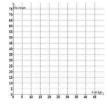
- Temperature and number of people wearing jackets
- Weight on a skateboard
 vs. speed of the skateboard
- Number of days absent from school vs. math average
- Distance traveled vs. amount of gas in the car

Tonight's assignment. Help will be posted on twitter.com/mskmal

	Fast Food Info 2. Temperature vs. Rainfall 3. Weekly Activitie # of Fat Grams Avg. Annual Rainfall (inches) Hours Watching TV Correlation: Correlation: Correlation:		termine if there is a positive, neg	
# of Fat Grams Avg. Annual Rainfall (inches) Hours Watching TV elation: Correlation:	# of Fat Grams Avg. Annual Rainfall (inches) Hours Watching TV elation:		2. Temperature vs. Rainfall	7 3
		# of Fat Grams	Avg. Temperature	Hours

- 7. During one month at a local deli, the number of pounds of ham sold decreased as the number of pounds of turkey sold increased.
 - A. What type of correlation is this an example of?
 - B. Is it reasonable to conclude that the change in turkey sales caused the decrease in ham sales? Explain your answer.
- The table to the right shows the average and maximum lifespan for some animals.
 - A. Plot the data from the table on the graph below.
 - B. What type of correlation exists, if any.
 - C. Describe the correlation.

Lifespan of Some Animals										
Avg.	12	25	15	8	35	40	41	20		
Max.	47	50	40	20	70	77	61	54		



Scatterplots & Correlation HW HELP

Essential Question

How can I tell the correlation between two variables?

- 1-3, make sure you explain WHY!
- 1. Positive
- 2. None

- 3. Negative
- 4-6, make sure you explain WHY!!
- 4. None
- 5. Negative
- 6. Positive

- 7. A. Negative
- B. No, correlation does not imply causation. People could be buying something else, not turkey.
- 8. A. Make the scatterplot (x-axis is average age, y-axis is maximum age)
- **B.** Positive
- C. Why is this relationship positive?