Name ______Period ____

Skill 2.1 Exercise 1						
Consider the following questions. For each question, (1) indicate what type of data you would need to collect to answer the question and (2) how you think you would analyze it.						
Which hour of the day are students at Timberline the happiest?	(1)					
	(2)					
Do taller people have a longer arm span?	(1)					
	(2)					
Do students with higher gpa's sleep longer?	(1)					
	(2)					
What type of shoes do sophomores, juniors, and seniors wear?	(1)					
	(2)					

Skill 2.2 Ex	ercise 1											
Refer to the	crosstab o	chart belo	w to ans	wer the f	ollowing	•	<u>_</u>		<u>_</u>	<u>_</u>		
COUNTA of Bree Maxin	num Life Span											
Breed Group	8	10	11	12	13	14	15	16	17	18	20 Grand	Total
Herding				4	2	3	2	1				12
Hound	1	2		4	3	4	3	1				18
Mixed					2							2
Non-Sporting					2	1	5	1				9
Sporting			1	5	1	6	5	1				19
Terrier					1	2	5	1			1	10
Toy				1		4	3	1	1	2		12
Working	1	6	1	8	2	3	2					23
Cuand Tatal	2	•	2	22	42	22	25		4	•	4	405

Which breed has the shortest life span?

What is the most common maximum life span for "Working" breeds?

Name ______Period ____

Type Title Country Data Added Release Year Rating Genre 1 Movie Esperando La C Argentina 7/15/2018 1985 NR Comedies, Cult Movies, International Movie 2 Movie Lucha: Playing tit Argentina 7/15/2018 2016 TV-PG Documentaries, International Movies, Spo 3 Movie Just Love Argentina 1/24/2019 2018 TV-MA Dramas, International Movies, Romantic Movie Desire Argentina 12/21/2017 2017 TV-MA Dramas, International Movies, Romantic Movie Desire Argentina 4/1/2018 2007 TV-MA Dramas, International Movies, Sci-Fi & Fa 6 Movie The Aerial Argentina 4/1/2018 2007 TV-MA Dramas, International Movies, Sci-Fi & Fa 6 Movie Chronicle of an EArgentina 6/15/2018 2006 R Dramas, International Movies, Sci-Fi & Fa 6 Movie Grego Rossello: Argentina 3/15/2018 1998 TV-MA Dramas, International Movies Sci-Fi & Fa 7 Movie Pizza, birra, fasc Argentina 10/31/2019 2019 TV-MA Dramas, International Movies Sci-Fi & Fa Movie River, el más gra Argentina 10/31/2019 2019 TV-MA Stand-Up Comedy 9 Movie River, el más gra Argentina 7/5/2019 2019 TV-G Documentaries, International Movies, Spo 10 Movie Agustín Aristará Argentina 2/16/2018 2018 TV-MA Stand-Up Comedy 11 Movie Todo Sobre El A Argentina 9/1/2017 2016 TV-14 Documentaries, International Movies CM Usica Musica Musica Movie 27, el club de los Argentina 5/1/2018 2018 TV-MA Action & Adventure, Comedies, Internation 14 Movie Mater Argentina 8/1/2018 2018 TV-MA Stand-Up Comedy 16 Movie Malena Pichot E Argentina 3/2/2018 2018 TV-MA Stand-Up Comedy 17 Movie Todo lo que serí Argentina 3/2/2018 2018 TV-MA Stand-Up Comedy 18 Movie Fernando Sanjia Argentina 5/25/2018 2018 TV-MA Stand-Up Comedy 18 Movie Fernando Sanjia Argentina 5/25/2018 2018 TV-MA Stand-Up Comedy 18 Movie Fernando Sanjia Argentina 5/25/2018 2018 TV-MA Stand-Up Comedy 18 Movie Fernando Sanjia Argentina 5/25/2018 2018 TV-MA Stand-Up Comedy 19 Movie Fernando Sanjia Argentina 5/25/2018 2018 TV-MA Stand-Up Comedy 19 Movie Todo lo que serí Argentina 5/25/2018 2018 TV-MA Stand-Up Comedy 10 Movie Todo lo que serí Argentina 5/25/2018 2018 TV-MA S		С	D E	F	G	Н	ı	J
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12 Movie GOI The Unforg Argentina 11/15/2019 2019 TV-PG Children & Family Movies, Musice & Musice 13 Movie 27, el club de los Argentina 5/1/2018 2018 TV-MA Action & Adventure, Comedies, Internation Movie Mater Argentina 8/1/2018 2017 TV-MA Dramas, Independent Movies, International TV-MA Stand-Up Comedy 16 Movie Malena Pichot: E Argentina 3/2/2018 2018 TV-MA Stand-Up Comedy 17 Movie Todo lo que serí Argentina 4/6/2018 2018 TV-MA Stand-Up Comedy 18 Movie Fernando Sanjia Argentina 5/25/2018 2018 TV-MA Stand-Up Comedy 18 Movie Fernando Sanjia Argentina 5/25/2018 2018 TV-MA Stand-Up Comedy 19 Movie Ch column(s) could be visualized using a histogram?							-	vies
13 Movie 27, el club de los Argentina 5/1/2018 2018 TV-MA Action & Adventure, Comedies, Internation Movie Mater Argentina 8/1/2018 2017 TV-MA Dramas, Independent Movies, Internation 15 Movie Sebastián Marce Argentina 1/26/2018 2018 TV-MA Stand-Up Comedy 16 Movie Malena Pichot: E Argentina 3/2/2018 2018 TV-MA Stand-Up Comedy 17 Movie Todo lo que seríc Argentina 4/6/2018 2018 TV-MA Stand-Up Comedy 18 Movie Fernando Sanjia Argentina 5/25/2018 2018 TV-MA Stand-Up Comedy 18 Column(s) could be visualized using a bar graph?								
15 Movie Sebastián Marce Argentina 1/26/2018 2018 TV-MA Stand-Up Comedy 16 Movie Malena Pichot: E Argentina 3/2/2018 2018 TV-MA Stand-Up Comedy 17 Movie Todo lo que sería Argentina 4/6/2018 2018 TV-MA Stand-Up Comedy 18 Movie Fernando Sanjia Argentina 5/25/2018 2018 TV-MA Stand-Up Comedy 19 Ch column(s) could be visualized using a bar graph? Ch column(s) could be visualized using a histogram?	13 Movie			2018	TV-MA		-	
16 Movie Malena Pichot: E Argentina 3/2/2018 2018 TV-MA Stand-Up Comedy 17 Movie Todo lo que sería Argentina 4/6/2018 2018 TV-MA Stand-Up Comedy 18 Movie Fernando Sanjia Argentina 5/25/2018 2018 TV-MA Stand-Up Comedy 19 Ch column(s) could be visualized using a bar graph? Ch column(s) could be visualized using a histogram?	14 Movie	Mater Argenti	na 8/1/2018	2017	TV-MA	Dramas, Indepe	endent Movies, In	ternationa
17 Movie Todo lo que serí Argentina 4/6/2018 2018 TV-MA Stand-Up Comedy 18 Movie Fernando Sanjia Argentina 5/25/2018 2018 TV-MA Stand-Up Comedy ch column(s) could be visualized using a bar graph? Ch column(s) could be visualized using a histogram?	15 Movie	Sebastián Marce Argenti	na 1/26/2018	2018	TV-MA	Stand-Up Come	edy	
18 Movie Fernando Sanjia Argentina 5/25/2018 2018 TV-MA Stand-Up Comedy Ch column(s) could be visualized using a bar graph? Ch column(s) could be visualized using a histogram?	16 Movie	Malena Pichot: E Argenti	na 3/2/2018	2018	TV-MA	Stand-Up Come	edy	
ch column(s) could be visualized using a bar graph? ch column(s) could be visualized using a histogram?	17 Movie	Todo lo que sería Argenti	na 4/6/2018	2018	TV-MA	Stand-Up Come	edy	
ch column(s) could be visualized using a bar graph? ch column(s) could be visualized using a histogram?	18 Movie	Fernando Sanjia Argenti	na 5/25/2018	2018	TV-MA	Stand-Up Come	edy	
	ch column(s) co	uld be visualized usi	ng a histogram?					
ch columns could be used to create crosstab chart? Note, there are several combinations that could work.	ch column(s) co	uid be visualized usi	ng a mstogram:					
ich columns could be used to create crosstab chart? Note, there are several combinations that could work.								
		d be used to create c	rosstab chart? No	te, there are	several c	ombinations	that could w	ork.
	ich columns cou							
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Name ______Period _____

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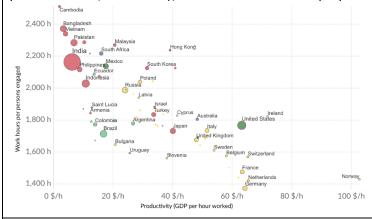
Below is a portion of a data set that contains information about different dog breeds.

Breed Name	Breed Group	Bred For	Min Life	Max	Min Height	Max Height	Min Weight	Max Weight	Temperament
Affenpinscher	Toy	Small rodent hunting, lapdog	10	12	9	12	6	13	Stubborn, Curious, Playful, Adventurous, Active, Fun- loving
		Coursing and							Aloof, Clownish, Dignified, Independent,
Afghan Hound	Hound	hunting Badger, otter	10	13	25	27	50	60	Happy Outgoing, Friendly, Alert, Confident, Intelligent,
Airedale Terrier	Terrier	hunting	10	13	21	23	40	65	Courageous

Identify two columns that could be compared using a scatter plot.

Skill 2.3 Exercise 2

Their research on <u>Working Hours(Opens in a new window)</u> includes this chart that compares productivity (GDP per hour worked) to the average number of hours worked per person.



What is the correlation between hours worked and GDP per hour worked?

Recently, a large group of companies trialed a "4 day work week". Based on this plot, can you predict the outcome? Check out this article to learn more, https://www.npr.org/2024/02/27/1234271434/4-day-workweek-successful-a-year-later-in-uk

AP Computer Science Principles Ticket Out the Door Set 2: Exploring Two Column Data

Name ______Period ____

Skill 2.4 Exercise 1	
For the first exercise on this ticket out the door, you were	e asked what type of data you would collect to answer
different questions. For each question indicate the best v	visualization (crosstab or scatter plot).
Question	Crosstab or Scatter Plot
Which hour of the day are students at Timberline the	
happiest?	
Do taller people have a longer arm span?	
Do students with higher gpa's sleep longer?	
What type of shoes do sophomores, juniors, and	
seniors wear?	