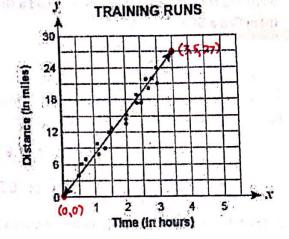
Review - Scatter Plots and Frequency Tables

Name: KE

1) Find the slope of the line of best fit, and describe what it means in the context of the situation.

 $\frac{27-0}{3.5-0} = \frac{27}{3.5} \approx 7.7$ They ran about 7.7 miles every hour.

2) Find the y-intercept of the line of best fit, and describe what it means in y-intercept=0; at 0 hours, they ran 0 the context of the situation.



3) Write an equation in the form y=mx+b for the line of best fit.

4) Use your equation to predict the distance of a four-hour training run.

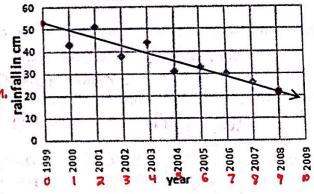
7.7(4)

Task 2

1) Find the slope of the line of best fit, and describe what it means in the context of the situation. (0,53)

(9,22)

Each year, the rainfall decreased by about 3.4 cm.



Rainfall in Tennesse

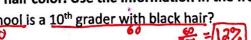
- 2) Find the y-intercept of the line of best fit, and describe what it means in the context of the situation. (You can assume that x = 053; In 1999, there was represents year 1999)
 - probably around 53 cm of rainfall.
- 3) Write an equation in the form y=mx+b for the line of best fit, where x is the number of years after 1999.

4) Use your equation to predict the amount of rainfall in Tennessee in 2016. 2016-1999 = 17

A high school ran a survey on hair color. Use the information in the frequency table to answer the questions.

X=17

1) What percentage of the school is a 10th grader with black hair?

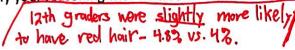


2) Find the relative frequency (percentage) of 9th graders at this school.

<u>Grade</u>	Hair Color				
	Blond	Brown	Black	Red	<u>Total</u>
9 th	45	41	61	3	150
10 th	25	35	60	5	125
11 th	36	48	34	2	120
12 th	20	29	51	5	105
Total	126	153	206	15	500

- 3) What percentage of the 12th graders have blond hair? 20
- 4) What percentage of the redheads are older than 10th graders?
- 5) Out of all the underclassmen (9th and 10th graders) what percentage of them do not have blond hair?
- 6) Who was more likely to have red hair 10th graders or 12th graders? Justify your reasoning with numbers

12th 등 ≈4.8%



180 mixide schoolers took a survey about their grade point average and whether or not they played a sport. There were 125 total mixide schoolers who had a GPA of over 3.0. Out of the 70 middle schoolers who played a sport, 15 of them had a GPA under 3.0.

- Complete the frequency table.
- 125 **GPA under 3.0** 55 Is there a correlation between the middle 193 Total schoolers' GPA and whether or not they played a sport? (In other words, based on this sample, who is more likely to have a GPA over 3.0 -- sport-players or non sport-players?) Justify your reasoning.

Plays Sport

Does Not Play Sport

Tolal

- 1) The table below shows the number of points per game (PPG) scored by 20 NBA players in the 2015-16 season, along with their 2015-16 salary. Create a scatter plot of the data. Put points per game as the x-axis and their salary on the yaxis. Be sure to choose appropriate intervals for your x and y-axis.
- 2) is there a positive, negative, or no correlation? What does this correlation mean?

Positive; in governly, them more points a player source, the more they get paid.

3) Do you think the correlation is strong, moderate, or weak? Why?

Very Weak; there are many other factors basides scoring ability that affect how much a playor gets paid. (defensive ability, passing ability, age)

4) Do you see any outliers? What causes them to be outliers?

Yes; Roy Hibbert - he scores very little but gets paid alot. Stephon Curry scores a lot but doesn't get poid that much.

Player	PPG	Salary
Kobe Bryant	17.6	\$25,000,000
LeBron James	25.3	\$23,000,000
Carmelo Anthony	21.8	\$22,900,000
Kevin Durant	28.2	\$22,000,000
Chris Paul	19.5	\$21,500,000
Dwyane Wade	19	\$20,000,000
Russell Westbrook	23.5	\$16,700,000
James Harden	29	\$15,700,000
Roy Hibbert	5.9	\$15,500,000
Demarcus Cousins	26.9	\$14,700,000
John Wall	19.9	\$14,700,000
Draymond Green	14	\$14,300,000
Stephen Curry	30.1	\$11,200,000
Luol Deng	12.3	\$10,100,000
Dirk Nowitzki	18.3	\$8,200,000
Tim Duncan	8.6	\$5,200,000
Victor Oladipo	16	\$5,100,000
Kristaps Porzingis	14.3	\$4,000,000
Paul Pierce	6.1	\$3,300,000
Jeremy Lin	11.7	\$2,100,000

