	*		, ** w			1	
Unit 4 Mid	dterm Re	view	e .	Name	e:	11/	rn "r" yalue
Each ques	stion will	tell you a fact	about your teache	r	8	00 0	lo 2nd
1.) The ta	able belo	w shows the a	verage height of a	tree and the amo	ount of years that	it has been	Tratalog,
1	12	growing	ζ,	vslope		97	to Diagnostics ON, Dress
Time (years)	Height (in fee	What is Year 14	the average rate of	of change in heigh	nt of the tree fro.	a Year 10 to	on, press of you see "Done" on the
10	7	* Mrs. J	essup started her	education at	don	lementary Scho	you see
10		A.	i 100t per year 1 25 feet ner vea	r Pine	Hall	= UX+D	Done"
11	8	C	1.5 feet per yea 1.5 feet per vear	Rive	erside		on the
12	10	D. 2	2 feet per year	Turr	ner Kon	4 then Ec	lit Screen.
13	12	1 0	calculator,	n 1010 1 -	12 d (
After you enter into L, and Lz, 14 15 DO STAT Key, arrow right (3) to Cake, then							n
y= 2	X-13.	40	lin reg.				
2.) Joey	compare	d the y-interce	pt of the graph of inear function tha	the function $f(x)$	= 2x + 3 to the	elow.	
y-interec	12	gruph of the h)	
X 1	g(x) \	What is the diff	ference when the y			om the y-	
3	20 i	ntercept of f(x)?	3-5	=-2		
6	35	* Mrs.	Jessup grew up v	vith			
		A.		e sister	TO Says SWarry	3,000	
9	50	B.	CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	e sister and one	brother		
12	65	, C.		siblings			£
(V)- EV	+5	D.	12 on	e brother			
4) The t	able belo	ow shows the a	mount cars havin	g been through t	he gas station for	the hours it is	
open.		5		9			*
Hours		3 _V	6 <u>X</u>	9.	12	15	
Open	1	<i>X</i>		100	10.00	1000	
Cars		60 U	120 🔾	180	240	300	X

What is the meaning of the slope of the linear model for the data? Can look at "b" value if you use 5 TAT key

6-3

 $=\frac{60}{3}$

(20- 60) * She celebrates her birthday on

A. The gas station is open 20 hours for every car it serves.

August 10

B. The gas station serves 1 car every 20 minutes.

November 10

C. The gas station serves 60 cars per hour.

January 10

D. The gas station serves 20 cars per hour.

December 10

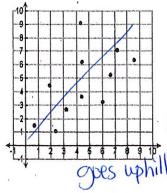
20curs

4.) The table below shows the cost of a sub sandwich based on the number of extras ordered. Which function represents the cost of a sub sandwich with n extras added Number of Cost (C) 0= .5 $1\lambda = ax+b$ b=5 Extras (n) * To get to school, Mrs. Jessup sometimes drives a \$5.50 (A. C(n) = 0.50n + 5) Ford F-150 truck \$6.00 B. C(n) = 5n + 0.50Chevrolet 1500 truck Toyota Tundra truck C. C(n) = 0.50n + 5.50\$6.50 Dodge Ram truck D. C(n) = 0.50n\$7.00 1150 5.) There were originally 10 bushes in Mitchell's nursery. Each year the Mitchells planted the same number of bushes. In the 18th year, there were 280 bushes. Which function b(n), can be used to 4=15x+10 determine the number of bushes in the nursery in any particular year? * March Madness....she is a _ fan. C. b(n) = 280/18n + 10A. b(n) = 15n + 10Kentucky North Carolina D. b(n) = 18n + 10B. b(n) = 18n - 10Duke Tennessee 6.) The sequence below shows the total number of days Katrina went swimming by the end of weeks 1, 2, 3, and 4 of her new workout routine. 3, 5, 7, 9, ... Which function could be used to find the total number of days Katrina swims at the end of week, w, if her pattern continues? * In her spare time Mrs. Jessup likes to hunt and show coonhounds. Redbone English
Bluetick C. S(w) = 2w + 1A. S(w) = 5w - 2Treeing Walker D. S(w) = 5w + 2English B. S(w) = w + 2Put equation y= .8x + .6 and use 7.) The table below shows the pants size and age of 5 boys. Age (years) Pants Size (Toddler Sizes - T) 3. 3 3-3.8=08 3.8 3 4 . 6 4.6 5 5 5,4 6 7 6 6,2

Approximately what percent of the boys' ages is more than 1 year different from the age predicted by the line of best fit?

avorite flavor of ice cream is	only I is more than
Butter Pecan	OTTION . A
Cookies & Cream	Lage predicted
Mint Chocolate Chip	
Chocolate	£ = 2 × 100 = 20/
	Cookies & Cream Mint Chocolate Chip

8.) The scatterplot below shows the number of division errors students made on a test and the amount of time they took to take the test.



- * Mrs. Jessup's favorite color is _____
 - A. There is a strong positive relationship between the variables. Red
 - B. There is a strong negative relationship between the variables.

 Orange
 - C. There is a weak positive relationship between the variables.
 - D. There is a weak negative relationship between the variables.

 Green
- 9.) What type of correlation is shown in the table?

Sugar (grams)	Weight (pounds)	
40	125	
75	140	
85	135	
110	160	
90	175	
55	157	
96	172	
50	160	

(2nd o catalog... down to Diagnostics DW)

Be sure Diagnostis Ch, Hun "Done" on screen)

Look at "r" value

y= ax+b
0= .358...;
b= 126.09...

- $\frac{96}{50}$ $\frac{172}{160}$ $\frac{7^2}{160}$ $\frac{243...}{160}$
- * Mrs. Jessup favorite kind of cookie is
 - A. Strong positive

chocolate chip

- B. Weak positive peanut butter
- C. Strong negative
- D. Weak negative

snickerdoodle an oreo

10.) The table below shows the number of hours that Tammy worked during 5 days and the amount of tips she earned. 1.559×-3.86

Hours Worked (x)	Tips Earned (y)	Predicted Tips
6	71	101.68
7	90	77.27
8	82	92.86
4	26	30.5
6	55	61.68

y= 15.59 X-31.86

90-77.27= (2.73)

· Line of Best

Fit
· Put equation
in y, =

· use Table

What is the difference between the observed and predicted value of working 7 hours?

* The answer to this question is how many states Mrs. Jessup will have travelled through or to in her lifetime.