

Name:

Date:

Unit 11, Day 2 Extra Practice

Period:



Learning Targets

- I can use my calculator to find a line of best fit from a table.
- I can use my calculator to find a line of best fit from a scatter plot.

1. Find the equation for line or curve of best fit for the following data.

Ages and length of tails of tadpoles:

Age (# of days)	Length of Tail (meters)
5	14
2	15
9	3
7	8
12	1
10	3
3	12

a. What is your equation? _____

Using your equation, estimate the tail length of an 8-day-old tadpole. (plug in $x = 8$)

b. Estimate the length when tadpole is 8 days old. _____

2. Find the equation for line or curve of best fit for the following data.

Height of a ball x seconds after being thrown in the air:

x (sec)	y (meters)
0	0
1	26.1
2	42.4
3	48.9
5	32.5
6	9.6

a. What is your equation? _____

b. Estimate what the height of the ball will be after 4 seconds.

Find the equation for line or curve of best fit for the following data.

Annual income, in thousands of dollars, and expenditures, in hundreds of dollars, for ten people:

Income	22	14	16	18	20	19	16	18	19
Expenditures	75	59	67	69	75	73	62	64	70

- a. What is your equation? _____
- b. Estimate the expenditures for someone who makes \$30,000 per year. _____

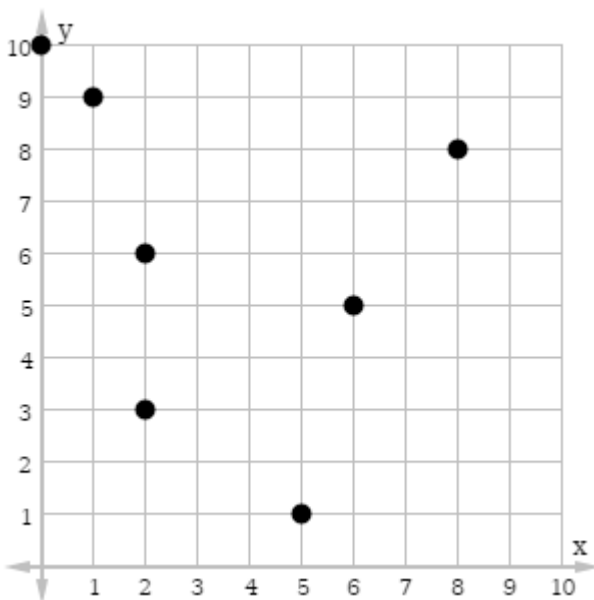
3. Find the equation for line or curve of best fit for the following data.

Result of two tests given to a group of Mathematic students:

Test 1 (x)	60	50	80	80	70	60	100	40	90
Test 2 (y)	80	70	70	100	50	80	100	60	80

- a. What is your equation? _____
- b. Estimate the result of test 2 for someone who made a 95% on test 1. _____

4. Find the equation for line or curve of best fit for the following data.



- b. What is your equation?

- c. Estimate the value of y when x is 4.
 $f(4) =$