

1)  $6x^4 \cdot 7x^5 =$

8.EE.1

2) Estimate  $\sqrt{92}$  to the nearest integer.

8.NS.2

3) Solve the linear equation.  
 $5x + 3x + 1 = 9x - x - 5$

8.EE.7a

4) Use the Pythagorean Theorem to determine the length of one leg of a right triangle if the other leg is 7 inches and the hypotenuse is 25 inches.

8.G.7

5) The two-way table below shows the number of students surveyed who play baseball and football. How many of the students surveyed do not play baseball?

	Play FB	No FB	Total
Play BB	23	21	
No BB	19	12	
Total			75

1)  $6x^4 \cdot 7x^5 =$   
 $6 \cdot 7 \cdot x^4 \cdot x^5$   
 $42x^9$  8.EE.1

2) Estimate  $\sqrt{92}$  to the nearest integer 10  
 $\sqrt{81} < \sqrt{92} < \sqrt{100}$   
 $9 < \sqrt{92} < 10$  8.NS.2

3) Solve the linear equation.  
 $5x + 3x + 1 = 9x - x - 5$   
 $8x + 1 = 8x - 5$   
 $-8x \quad -8x$   
 $1 \neq -5$  8.EE.7a  
 no solution

4) Use the Pythagorean Theorem to determine the length of one leg of a right triangle if the other leg is 7 inches and the hypotenuse is 25 inches.

24 inches  $a^2 + b^2 = c^2$   
 $a^2 + 7^2 = 25^2$   
 $a^2 + 49 = 625$  8.G.7

$a^2 = 576$   
 $\sqrt{a^2} = \sqrt{576}$   
 $a = 24$

5) The two-way table below shows the number of students surveyed who play baseball and football. How many of the students surveyed do not play baseball? 31 students

	Play FB	No FB	Total
Play BB	23	21	44
No BB	19	12	31
Total	42	33	75

1. The number of days you have been alive to the number of days until your death.  
**T** Positive Correlation   **O** Negative Correlation   **D** No Correlation
2. The day of the month and the wind speed.  
**T** Positive Correlation   **O** Negative Correlation   **D** No Correlation
3. The age of a car and its selling price.  
**T** Positive Correlation   **O** Negative Correlation   **D** No Correlation
4. The weight of a vehicle and its gas mileage.  
**L** Positive Correlation   **M** Negative Correlation   **P** No Correlation
5. The outside temperature and the number of people in attendance at the beach.  
**Y** Positive Correlation   **L** Negative Correlation   **S** No Correlation
6. The month of the year and the number of birthdays in a certain month.  
**S** Positive Correlation   **O** Negative Correlation   **W** No Correlation

7. The population of a state and the number of senators.

**L** Positive Correlation    **R** Negative Correlation    **A** No Correlation

8. The weight of a woman and her height in inches.

**N** Positive Correlation    **T** Negative Correlation    **K** No Correlation

9. The number of hours studies and the test score received.

**R** Positive Correlation    **S** Negative Correlation    **B** No Correlation

**Which two days of the week start with T?**

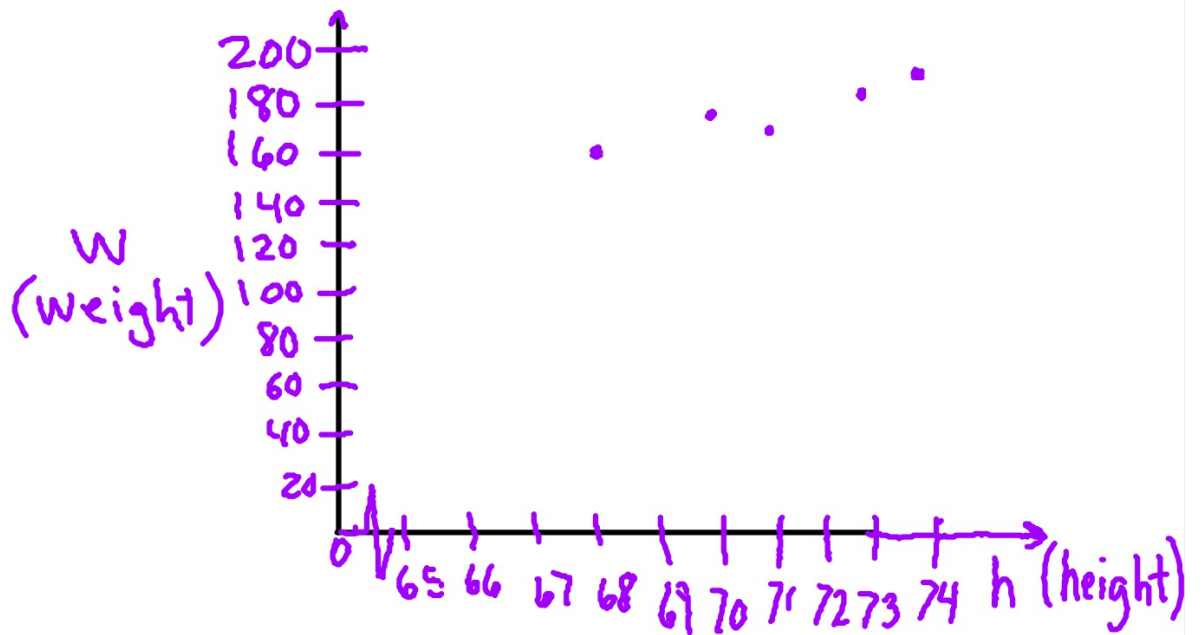
3   1   2   7   5   7   8   2

3   1   4   1   9   9   1   6

## Make a Scatterplot

### Height and Weight

x	h	71	68	70	73	74
y	w	170	160	175	180	190



How to find Line of Best Fit on your calculator

<http://www.youtube.com/watch?v=HTFtogVoLiw>

Have your calculator in hand to work along with the video

## How to clear your calculator

2nd + 7 1 2

\* You will be using this often, because anytime you enter data or graphs your calculator will save this information. You will want to clear out the information between every problem.

## How to graph a scatter plot on your calculator

- 1) STAT; EDIT; ENTER
- 2) Enter x's in L1 column and y's in L2 column
- 3) 2nd STAT PLOT; ENTER
- 4) press ENTER when ON is blinking
- 5) make sure the 1st graph is selected
- 5) Graph

\* If you do not see your graph then your window needs adjusted. Use the ZOOM button.



## How to graph the equation of the line of best fit

1) STAT; CALC; LinReg(4)

2) L<sub>1</sub>, L<sub>2</sub>, VARS; Y-VARS, ENTER, ENTER,  
ENTER

2) GRAPH

\* If you do not see your graph, then your window may need adjusted

ZOOM 9

## How to predict x and y values

- 1) 2nd: TABLE
- 2) Scroll up and down
- 3) If you're looking for a particular value...  
2nd; TABLESET; Type in what you want the table to start at. Then, 2nd; Table