Statistics (non-AP)
Summer Work Packet

DUE THE LAST DAY OF THE FIRST WEEK OF SCHOOL
Welcome to Statistics!

This course is an introduction to statistics and data analysis. You will be completing daily, in-class investigations designed to help you understand basic statistical calculations, data collection, and an introduction to inference. You will learn how to analyze topics of interest from a statistical perspective. In order to do so, you must prepare by reviewing math skills that will help you quickly and accurately analyze data.

You required summer assignments are as follows:

1) Complete the work in this packet.
2) Submit your work using this Google Form. [https://forms.gle/wb6sBEOm7C2sshgx9](https://forms.gle/wb6sBEOm7C2sshgx9)
3) Purchase a TI-34 Multiview or a TI-30 XS Multiview calculator.

(You may email me at eraskin@latinpcs.org a picture or a link prior to purchasing, if you would like to verify that you are purchasing the correct calculator.)

Please do not buy a graphing calculator. You **may not use** a regular scientific calculator or TI-30XS.

4) Purchase a 3-ring binder with extra lined paper. You will need this in class daily.
Find a fraction of a number

1) Find \( \frac{5}{8} \) of 72.

2) Find \( \frac{6}{7} \) of 84

3) Find \( \frac{9}{10} \) of 125

4) Find \( \frac{3}{4} \) of 175
Find a percent of a number

5) Find 23% of 170

6) Find 8.2% of 120

7) Find 12.25% of 56

8) Find 0.016% of 48

9) Find 0.18% of 80
10) Complete the chart.

<table>
<thead>
<tr>
<th>Fraction</th>
<th>Decimal</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\frac{2}{3}$</td>
<td>0.125</td>
<td>95%</td>
</tr>
<tr>
<td>0.003</td>
<td></td>
<td>0.017%</td>
</tr>
<tr>
<td>$\frac{5}{12}$</td>
<td></td>
<td>0.017%</td>
</tr>
<tr>
<td>$\frac{7}{16}$</td>
<td>0.307</td>
<td>2.015%</td>
</tr>
<tr>
<td>2.04</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Determine if a fraction is greater than or less than \( \frac{1}{2} \).

11) Is \( \frac{1}{4} \) greater than, less than, or equal to \( \frac{1}{2} \)?

12) Is \( \frac{3}{6} \) greater than, less than, or equal to \( \frac{1}{2} \)?

13) Is \( \frac{5}{6} \) greater than, less than, or equal to \( \frac{1}{2} \)?

14) Is \( \frac{3}{4} \) greater than, less than, or equal to \( \frac{1}{2} \)?

15) Is \( \frac{5}{8} \) greater than, less than, or equal to \( \frac{1}{2} \)?

16) Is \( \frac{1}{3} \) greater than, less than, or equal to \( \frac{1}{2} \)?

Add fractions

17) \( \frac{5}{7} + \frac{2}{4} \)

18) \( \frac{10}{22} + \frac{7}{11} \)

19) \( \frac{8}{14} + \frac{2}{7} \)

20) \( \frac{5}{27} + \frac{1}{9} \)
**Subtract fractions**

21) \( \frac{6}{8} - \frac{2}{12} \)

22) \( \frac{5}{11} - \frac{2}{12} \)

23) \( \frac{2}{3} - \frac{3}{9} \)

24) \( \frac{4}{6} - \frac{2}{5} \)

25) \( \frac{8}{9} - \frac{8}{27} \)
Substitute a value for a variable in an expression

26) Find the value of $y = 48.1825x - 118.25$ when $x = 45$

27) Find the value of $y = 62.138x - 11.23$ when $x = 64$

28) Find the value of $y = 0.614x + 124.7$ when $x = 40$

Graph lines in slope-intercept form.

29) Graph $y = -6.25x + 10$