

Statistics
Summer Work Packet

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) Sign up for or log onto Khan Academy. Add me as a coach by selecting me from the coaches' list or by using class code **APHUQGJF**. The class is named *Statistics Summer Review*. This will be a resource for you to review the material in this packet prior to completing the problems.
- 2) **Complete the work in this packet.**
- 3) Purchase a TI-34 Multiview or a TI-30 XS Multiview calculator.



TI-30XS MultiView™ TI-34 MultiView™

- 4) (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.



TI-30Xa

TI-30XIIS™

- 5) 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

Fraction/Decimal/Percent Equivalents

10) Complete the chart.

Fraction	Decimal	Percent
$\frac{2}{3}$		
	0.125	
		95%
	0.003	
		0.017%
$\frac{5}{12}$		
$\frac{7}{16}$		
	0.307	
		2.015%
	2.04	

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) $\frac{5}{27} + \frac{1}{9}$

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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 $y = -6.25x + 10$

