

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](mailto: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.

<b>Fraction</b>	<b>Decimal</b>	<b>Percent</b>
$\frac{2}{3}$		
	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)  $\frac{5}{27} + \frac{1}{9}$

Statistics  
Summer Work Packet

**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  $y = -6.25x + 10$

