Statistics (non-AP)
Summer Work Packet

DUE THE LAST DAY OF THE FIRST WEEK OF SCHOOL

Statistics

Work Packet, Summer, 2021 – 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) 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) Submit your work using this Google Form. https://forms.gle/wb6sBEoM7C2sshgx9
4) Purchase a TI-34 Multiview or a TI-30 XS Multiview calculator.

TI-30XS MultiView™   TI-34 MultiView™

5)

(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™

6) Purchase a 3-ring binder with extra lined paper. You will need this in class daily.

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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

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Fraction/Decimal/Percent Equivalents

10) Complete the chart.

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

Determine if a fraction is greater than or less than ½.

11) Is $\frac{1}{4}$ greater than, less than, or equal to ½?

12) Is $\frac{3}{6}$ greater than, less than, or equal to ½?

13) Is $\frac{5}{6}$ greater than, less than, or equal to ½?

14) Is $\frac{3}{4}$ greater than, less than, or equal to ½?

15) Is $\frac{5}{8}$ greater than, less than, or equal to ½?

16) Is $\frac{1}{3}$ greater than, less than, or equal to ½?

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