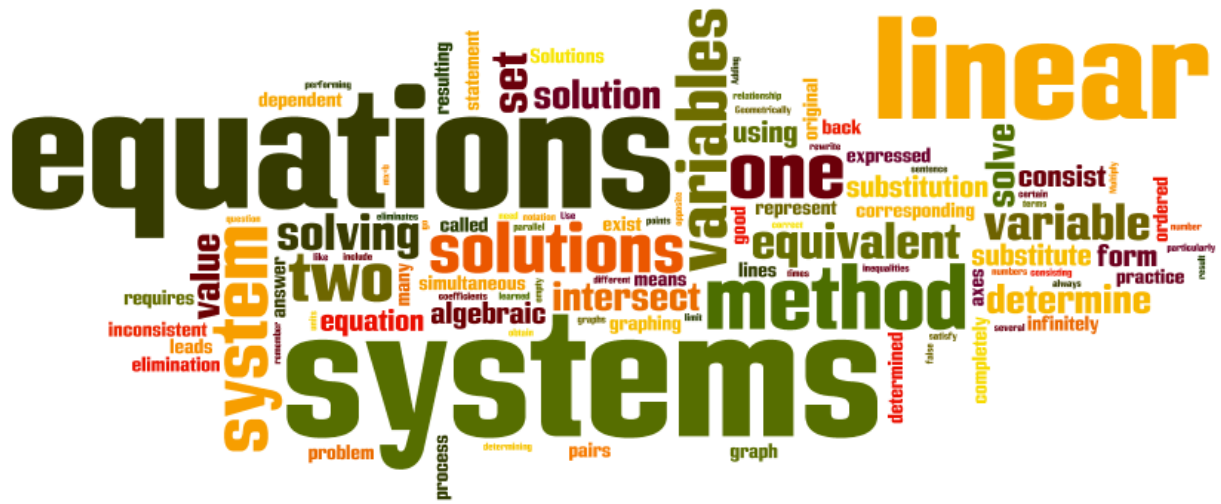




# Lawrence High School's Algebra I Optional 2019 Summer Assignment





# LAWRENCE TOWNSHIP PUBLIC SCHOOLS

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**Directions:** This is an OPTIONAL Algebra 1 Summer Assignment that will help you to be best prepared for your scheduled math class in September.

- It would be best to complete ALL problems.
- Show all your neat and organized work for every problem.
- Be sure your name is on each additional work page.
- You may choose to turn this into your teacher the first full week of school for consideration for extra credit.

**Resources:** You have your notes and handouts from 8<sup>th</sup> Math and your Go Math text. For additional examples and support you can reference any of the sites listed below and search the skill/concept.

- KhanAcademy.com
- You Tube.com or Teacher Tube.com
- MathIsPower4u.com
- IXL.com



Name \_\_\_\_\_

**Algebra 1 Summer Assignment 2019**

**Evaluate each expression.**

1)  $(13 - 1) \div (2 + 1)$

2)  $(7 + 15 - 4) \div 3$

3)  $6 + 4^2 + (5)(5)$

4)  $1 - (5 - (6 - 1)) + 2$

**Evaluate each using the values given.**

5)  $(5 - z)(y + x)$ ; use  $x = 5$ ,  $y = 5$ , and  $z = 3$

6)  $((q)(p + p^2)) \div 4$ ; use  $p = 4$ , and  $q = 2$

**Simplify each expression.**

7)  $1 - 4a - 9 + 7a$

8)  $-5x + 10x$

9)  $-10(10m + 2)$

10)  $8(x + 3)$

11)  $2n - 7(-2n + 9)$

12)  $10(v - 9) + 7v$



**Solve each proportion.**

13)  $\frac{10}{4} = \frac{7}{8n}$

14)  $\frac{n}{9} = \frac{3}{8}$

15)  $\frac{n}{2} = \frac{7}{4}$

16)  $\frac{v}{7} = \frac{6}{8}$

**Solve each equation.**

17)  $p - 19 = -22$

18)  $-7 + x = -22$

19)  $-8r = 16$

20)  $\frac{p}{12} = 14$

21)  $\frac{-10 + x}{15} = -1$

22)  $-5(b - 8) = 85$

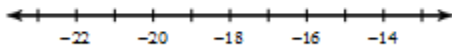
23)  $6p - 3 = 51$

24)  $\frac{a}{2} - 9 = -16$

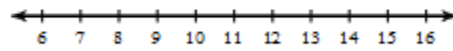


Solve each inequality and graph its solution.

25)  $m - 10 \leq -25$

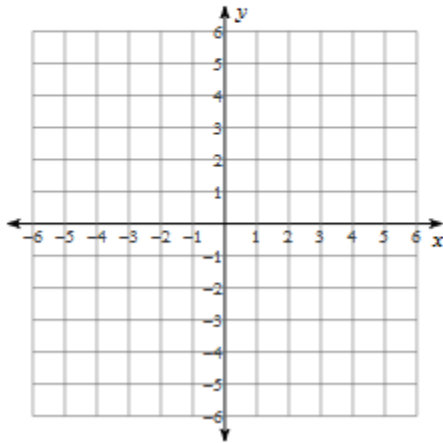


26)  $-2n > -16$

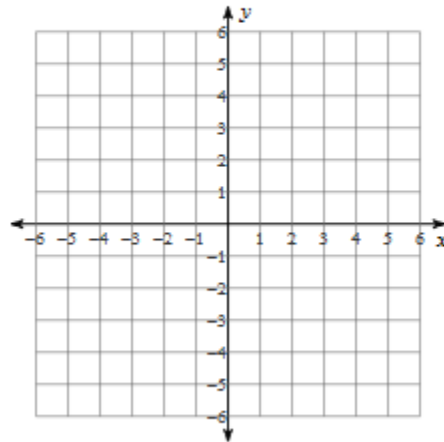


Sketch the graph of each line.

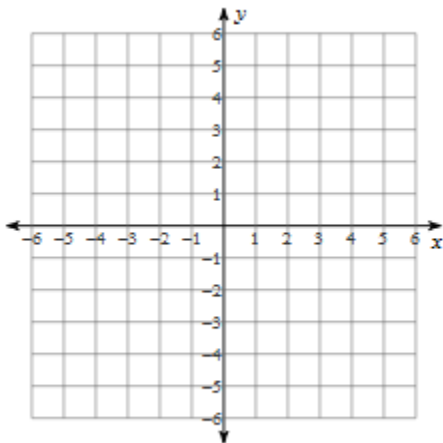
27)  $y = -\frac{1}{4}x - 1$



28)  $y = -2$



29)  $y = -2x$



30)  $y = 5x - 3$

