

Algebra 1 Summer Assignment 2022-2023

This assignment should be completed over the summer and turned into your Teacher the First week of School.

ALL WORK MUST BE SHOWN TO RECEIVE CREDIT!

For problems 1-3, simplify the expression using order of operations.

1. $|6^2 - 4^3| + 10(2)$

2. $5 - 10(10) \div 5^2 + 2$

3. $\frac{(-2)^3 - 1}{1 + 1}$

For Problems 4-8, solve for x.

4. $\frac{x}{4} - 15 = 10$

5. $4(x + 1) - 2 = 3x$

6. $8x + 10 = 7x - 4$

7. $4 + 10x = 5x - 1$

8. $\frac{1}{2}(4x - 8) + 3x + 6 = 90$

For Problems 9-10, combine like terms.

9. $4x + 3y - 2x + 7y + 5$

10. $6x + 7x^2 - 4x + x^2 + 7x$

For problems 11-12, find the slope of the line given two points.

11. $(6, -10)(2, 3)$

12. $(-6, 12)(-3, 5)$

For 13, solve and graph the inequality.

$$-2x + 3 \leq 11$$

For problem 14, find the mean, median, mode and range of the data below.

{9,10,8,7,6,9,6,10,12,18,4,7,10,9,6,7}

Mean:

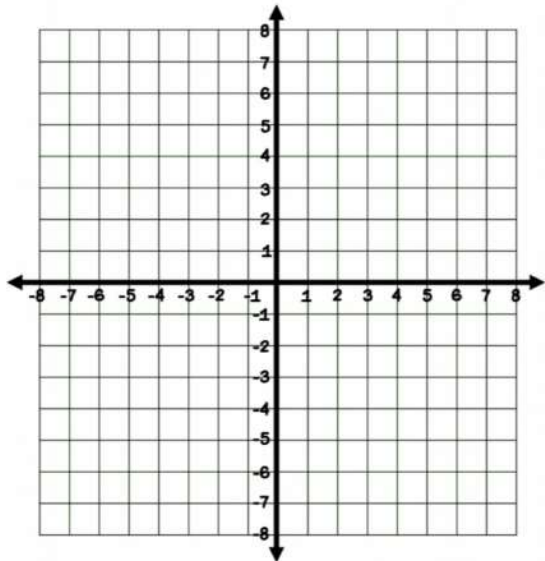
Mode:

Median:

Range:

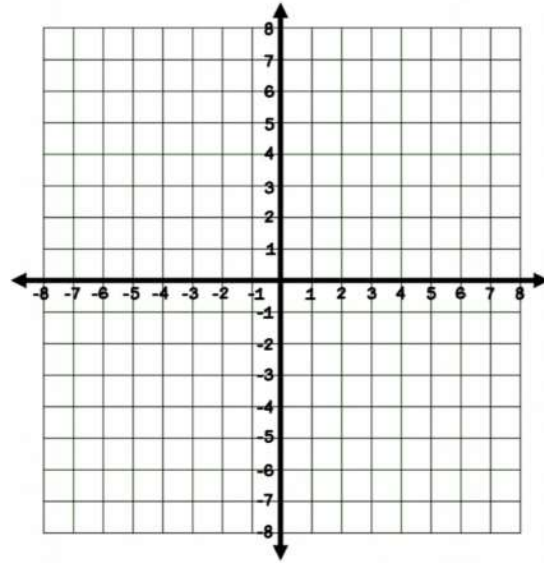
For problem 15, graph the points on the coordinate plane provided below.

A (5,2) B(3,-5) C(-6,4)

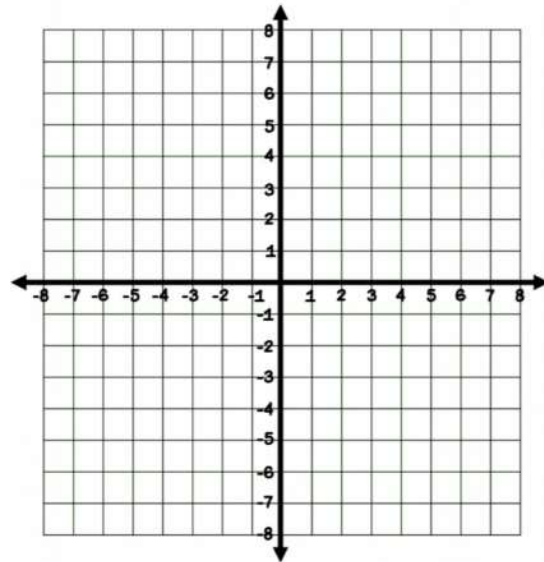


For 16-17, Graph the equation of the line on the provided graphs.

16. $y = \frac{1}{2}x - 1$



17. $y = -\frac{2}{5}x + 2$



For Problem 18, solve the proportion below.

$$\frac{x}{4} = \frac{16}{3}$$