

Name: _____ Algebra 1 Plus Midyear Review 2018-2019

Simplify the following. Show all work. Circle your answers.

1.) $3.12 + 4.39$

2.) $2.36 + 9.21$

3.) $5.69 - 3.33$

4.) $6.58 - 2.72$

5.) 2.3×1.7

6.) $14.8 \div 4$

7.) $\frac{2}{3} + \frac{1}{2}$

8.) $\frac{4}{5} - \frac{1}{2}$

9.) $\frac{1}{4} \cdot \frac{2}{5}$

10.) $\frac{1}{5} \div \frac{2}{9}$

Simplify each fraction completely.

11.) $\frac{2}{16}$

12.) $\frac{6}{24}$

13.) $\frac{12}{48}$

14.) Which fraction is equivalent to $\frac{3}{7}$? Explain how you know.

a.) $\frac{6}{21}$

b.) $\frac{1}{4}$

c.) $\frac{9}{27}$

d.) $\frac{15}{35}$

Solve each. Circle your final answer.

15.) $2x - 6 = 10$

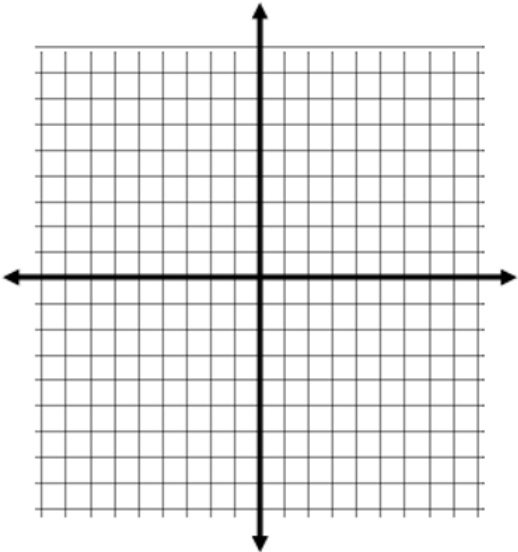
16.) $-3(2x + 1) = 15$

17.) $-5(x - 3) = -4x + 21$

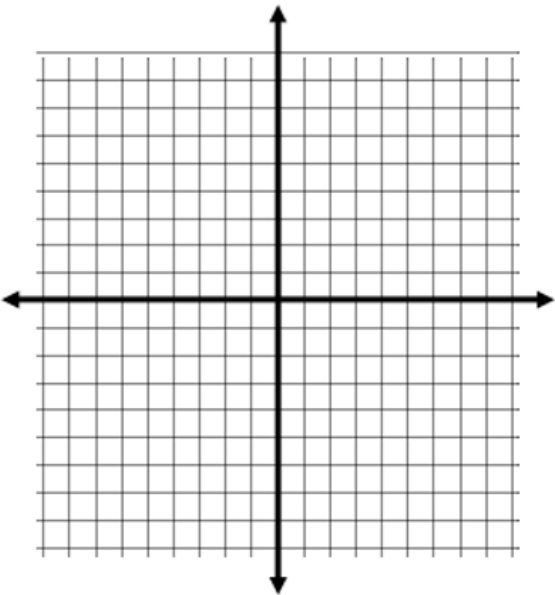
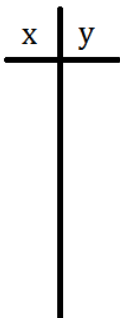
18.) $r + 3 = -5 + 3r$

Graph #19-20 by creating a chart of x/y values. Show all work. Create/plot at least 4 points. Create the line using a ruler.

19.) $2x = y + 1$



20.) $y = x - 4$



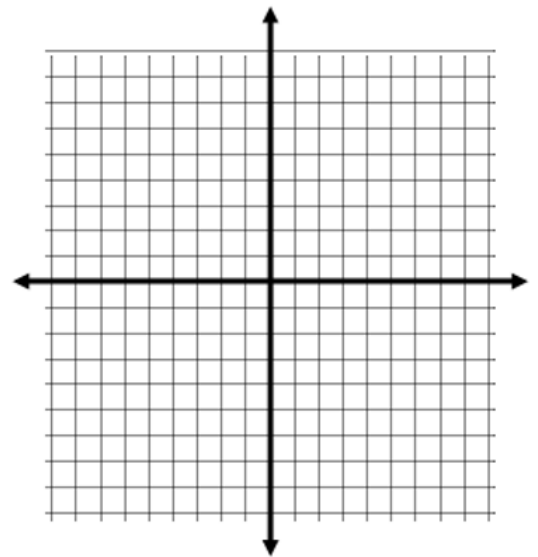
22.) $B: (2, 3)$

23.) $C: (-4, -5)$

24.) $D: (1, -6)$

25.) $E: (0,0)$

26.) $F: (-1, -1)$



For #s 27-32, name the ordered pair for each plotted point on the graph.

27.) A:

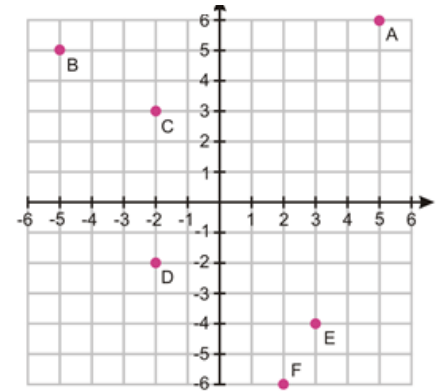
28.) B :

29.) C :

30.) D :

31.) E :

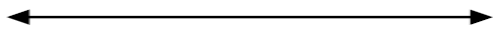
32.) F :



Solve the inequalities. Graph the solutions on a number line.

33.) $\frac{x}{4} < 3$

34.) $\frac{x}{5} + 7 \geq 10$



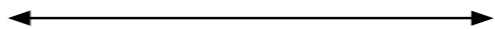
35.) $3(2x - 1) \leq 9$

36.) $-4x - 3 > 5$



37.) $5 \leq 2x - 1 < 7$

38.) $3x < 12$ or $x + 2 > 8$



39.) Name 3 numbers x could be if $x \leq 2$

40.) Label all 4 quadrants, the origin, and the x and y axis.

