Preparing for Algebra 1 Name_____ ID: 1

Summer Review

Date_____ Period____

Decimals: Round each to the place indicated.

1) 6.8393; thousandths

2) 6.976; tenths

3) 7.668393; ten-thousandths

4) 4.7927; hundredths

5) 66.30; ones

Factions: Evaluate each expression.

6) $2 - \frac{13}{9}$

7) $\left(-\frac{5}{12}\right) + \left(-\frac{1}{6}\right)$

8) $4\frac{3}{7} + \left(-3\frac{7}{8}\right)$

9) $\left(-3\frac{9}{10}\right) - 1\frac{5}{12}$

10) $-2\frac{1}{8} \cdot -\frac{4}{9}$

11) $-\frac{2}{7} \cdot \frac{7}{6}$

12) $\frac{5}{4} \div \frac{-9}{5}$

13) $\frac{5}{6} \div -3\frac{7}{10}$

Decimals, Fractions, & Percents: Write each as a fraction.

14) 3.3

15) 0.01

16) 12%

17) $66.\overline{6}\%$

Decimals, Fractions, & Percents: Write each as a percent. Use repeating decimals when necessary.

18) 0.059

19) 0.012

20) $\frac{3}{4}$

21) $\frac{1}{303}$

Decimals, Fractions, & Percents: Write each as a decimal. Use repeating decimals when necessary.

22) $2\frac{1}{3}$

23) $9\frac{1}{5}$

24) 51%

25) 1%

Percent Proportion: Solve each problem.

26) 41.7 is what percent of 47?

27) 44 is what percent of 104.2?

28) What is 6% of 89?

29) What is 2% of 154.3?

30) 99% of what is 70?

31) 140% of what is 66?

Order of Operations (PEMDAS): Evaluate each expression.

32) $(-4) - 1 - (-6) - (8 - (-9))$

33) $2(6^2 + 6) - (-8)$

34) $\dfrac{16}{4 + 4 + (-7) - 4 - (-7)}$

35) $5 \cdot \dfrac{(-3) + 9 - 2 - 1}{-1}$

36) $(-1) - 5 + \dfrac{20}{(-4) - 6} - ((-7) - 8)$

37) $3^3(2 + 2 - 6) - 6 \cdot (-3)$

Order of Operations Substitution (PEMDAS): Evaluate each using the values given.

38) $b + b - c + 1$; use $b = -4$, and $c = -9$

39) $q - \left(\dfrac{m}{4} + p\right)$; use $m = 4$, $p = -7$, and $q = 4$

40) $3 - r + \dfrac{rq}{4}$; use $q = -4$, and $r = 4$

41) $\dfrac{q}{2} + q - (r + r)$; use $q = 10$, and $r = -2$

One & Two - Step Equations: Solve each equation.

42) $n - 17 = -36$

43) $45 = -3p$

44) $3 = 17 - b$

45) $14 = \frac{n}{3}$

46) $2 = \frac{10 + n}{4}$

47) $6 = \frac{p}{2} + 1$

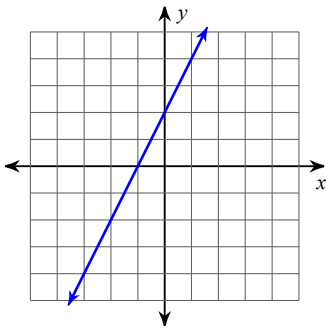
48) $2 = \frac{p}{9} + 1$

49) $-5 - 5b = 65$

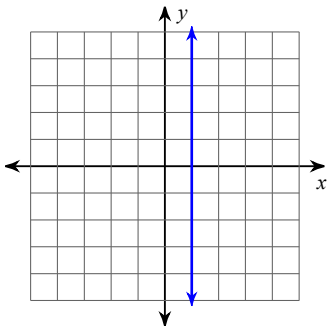
50) $-12 = 3(10 + r)$

Slope: Find the slope of each line.

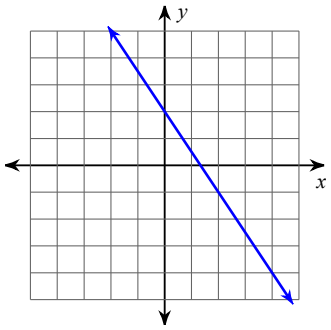
51)



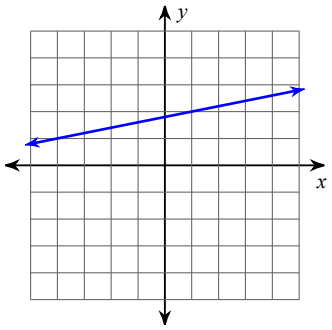
52)



53)



54)



55) $(-14, -15), (-4, -11)$

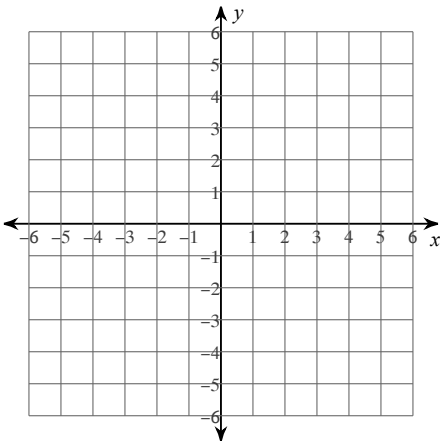
56) $(-20, 7), (6, -2)$

57) $y = x + 3$

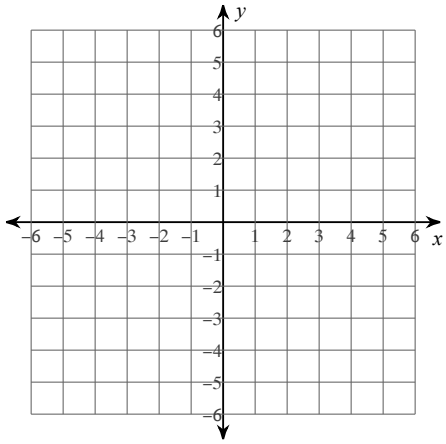
58) $y = 1$

Graphing Linear Equations: Sketch the graph of each line.

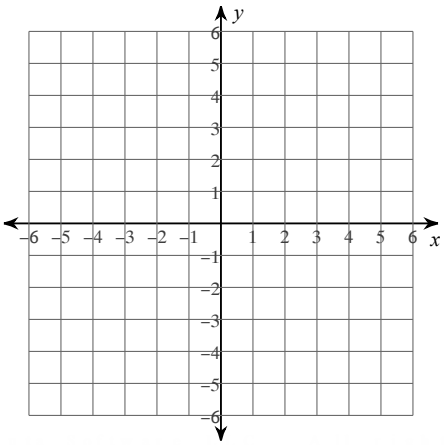
59) $y = \frac{5}{4}x + 4$



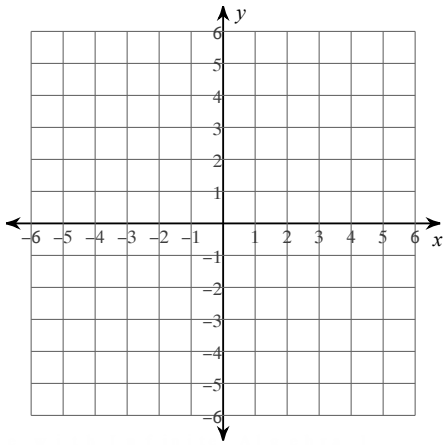
60) $y = -6x - 4$



61) $-5 = -y - 3x$

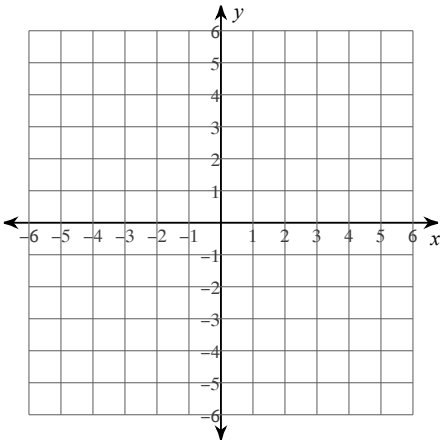


62) $-8y - 24 - 2x = 0$

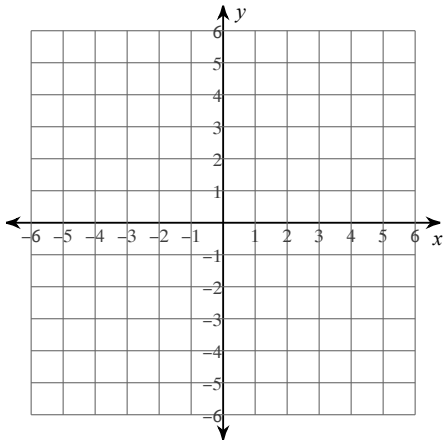


Graphing Linear Inequalities: Sketch the graph of each linear inequality.

63) $y \leq x - 5$



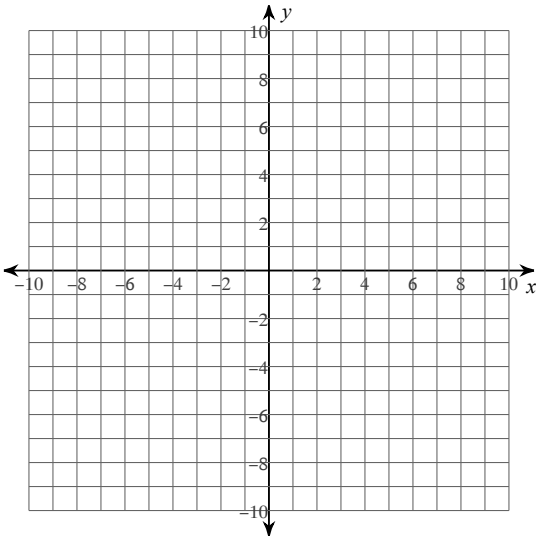
64) $3x + y > 3$



Systems of Equations/Inequalities: Solve each system of equations or inequalities by graphing.

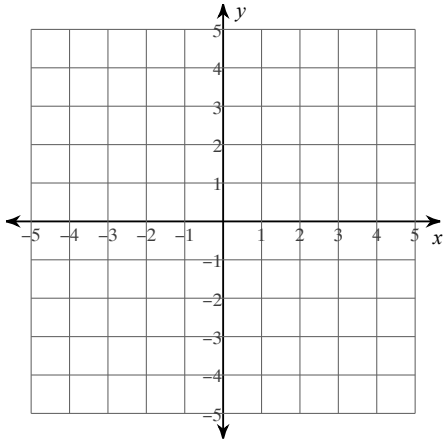
65) $y = -5x + 4$

$y = \frac{1}{2}x - 7$



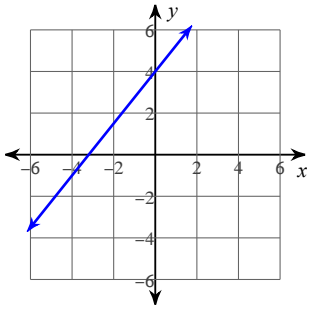
66) $y > -x - 3$

$y \leq 2x + 3$

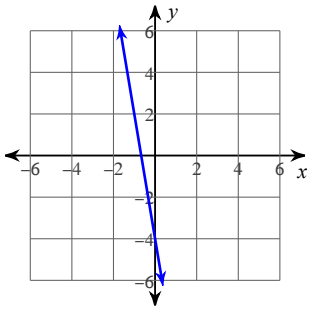


Answers to Summer Review (ID: 1)

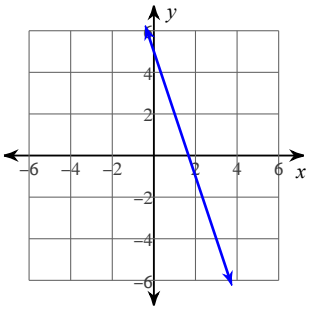
1) 6.839
2) 7.0
3) 7.6684
4) 4.79
5) 66
6) $\frac{5}{9}$
7) $-\frac{7}{12}$
8) $\frac{31}{56}$
9) $-\frac{319}{60}$
10) $\frac{17}{18}$
11) $-\frac{1}{3}$
12) $-\frac{25}{36}$
13) $-\frac{25}{111}$
14) $3\frac{3}{10}$
15) $\frac{1}{100}$
16) $\frac{3}{25}$
17) $\frac{2}{3}$
18) 5.9%
19) 1.2%
20) 75%
21) $0.\overline{3300}\%$
22) $2.\overline{3}$
23) 9.2
24) 0.51
25) 0.01
26) 88.7%
27) 42.2%
28) 5.3
29) 3.1
30) 70.7
31) 47.1
32) −16
33) 92
34) 4
35) −15
36) 7
37) −36
38) 2
39) 10
40) −5
41) 19
42) $\{-19\}$
43) $\{-15\}$
44) $\{14\}$
45) $\{42\}$
46) $\{-2\}$
47) $\{10\}$
48) $\{9\}$
49) $\{-14\}$
50) $\{-14\}$
51) 2
52) Undefined
53) $-\frac{3}{2}$
54) $\frac{1}{5}$
55) $\frac{2}{5}$
56) $-\frac{9}{26}$
57) 1
58) 0
59)



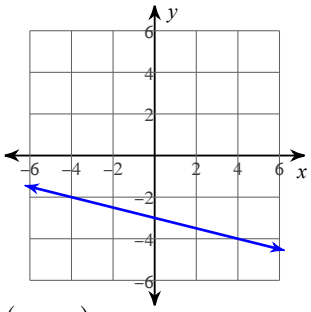
60)



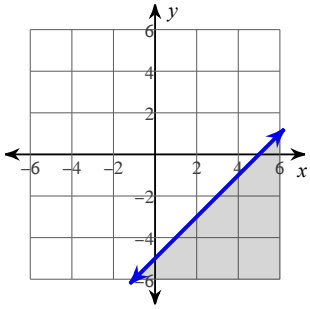
61)



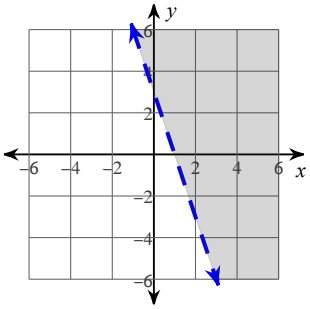
62)



63)



64)



65) $(2, -6)$

66)

