

## 8th Grade Summer Packet

Date \_\_\_\_\_

**Find each sum.**

1)  $(-6.3) + 2.32$

2)  $(-7) + 2.7$

3)  $(-4.8) + (-7.2)$

**Find each difference.**

4)  $3.2 - (-7.5)$

5)  $(-0.7) - 7.5$

6)  $3 - 6.5$

**Find each sum.**

7)  $(-5) + (-3)$

8)  $(-2) + 1$

9)  $1 + (-3)$

**Find each difference.**

10)  $5 - 1$

11)  $8 - 5$

12)  $(-6) - 1$

**Find each sum.**

13)  $\left(-3\frac{3}{5}\right) + 4\frac{1}{6}$

14)  $2\frac{1}{8} + \left(-2\frac{1}{2}\right)$

15)  $\frac{1}{7} + \left(-3\frac{3}{4}\right)$

**Find each difference.**

16)  $1\frac{3}{7} - 4\frac{1}{6}$

17)  $2\frac{1}{3} - 1\frac{3}{8}$

18)  $\left(-1\frac{1}{2}\right) - 4\frac{1}{6}$

**Find each sum.**

19)  $\frac{1}{4} + \left(-\frac{5}{3}\right)$

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

21)  $\left(-\frac{1}{4}\right) + \frac{7}{5}$

**Find each difference.**

$$22) \left(-\frac{2}{3}\right) - \frac{2}{5}$$

$$23) \frac{1}{4} - \left(-\frac{2}{5}\right)$$

$$24) \left(-\frac{3}{8}\right) - \frac{11}{8}$$

**Find each sum.**

$$25) 7.5 + (-3.6)$$

$$26) 3.7 + (-4.6)$$

$$27) (-0.2) + 2.8$$

**Find each difference.**

$$28) 3.5 - 1.7$$

$$29) (-0.3) - 0.7$$

$$30) (-4.2) - (-0.4)$$

**Write each as a fraction.**

$$31) 0.6$$

$$32) 0.68$$

$$33) 0.25$$

**Write each as a percent. Use repeating decimals when necessary.**

$$34) 0.96$$

$$35) 0.05$$

$$36) 0.03$$

$$37) \frac{167}{200}$$

$$38) \frac{30}{37}$$

$$39) \frac{14}{25}$$

**Write each as a decimal. Use repeating decimals when necessary.**

$$40) \frac{3}{25}$$

$$41) \frac{112}{125}$$

$$42) \frac{2}{9}$$

**Evaluate each expression.**

$$43) 6 + 3 + 6 \div 2$$

$$44) 5 - 4 + 6 \times 4$$

$$45) 4 \times 5 - 1 + 2$$

**Simplify each expression.**

$$46) 6(6 - r)$$

$$47) -(x + 9)$$

48)  $-(1 + 5n)$

50)  $9x + 2 + 4x - 10$

52)  $\frac{1}{10}p + 4\frac{2}{3} + 3\frac{1}{8}$

54)  $-2\frac{4}{7}x - \frac{5}{6}x$

49)  $2m - 9m$

51)  $-9n - 6 + 8n + 8$

53)  $3\frac{1}{2}n + 1 + \frac{12}{7}n + 1$

55)  $m + \frac{2}{3} + \frac{2}{3}m - 9$

**Solve each equation.**

56)  $-16 + b = 0$

58)  $v - 13 = 0$

60)  $136 = 8v$

62)  $-19 = \frac{a}{5}$

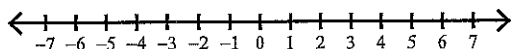
57)  $-8 = x - 8$

59)  $-3x = -12$

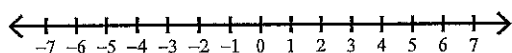
61)  $\frac{n}{17} = 6$

**Draw a graph for each inequality.**

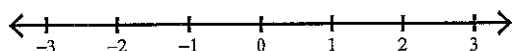
63)  $n > 5$



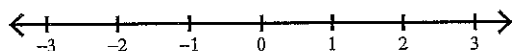
65)  $n > -4$



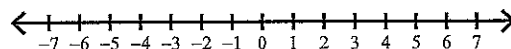
67)  $x > -2$



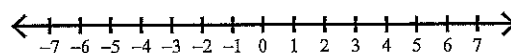
69)  $r > 2$



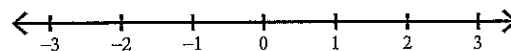
64)  $k > -1$



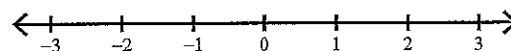
66)  $v \geq 2$



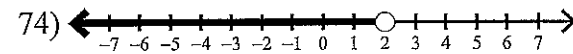
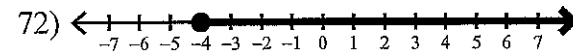
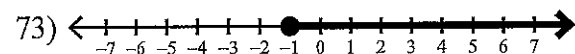
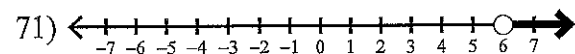
68)  $p \geq 2$



70)  $m \leq 2$



**Write an inequality for each graph.**



**Simplify each expression.**

75)  $-2 + 6(m - 3)$

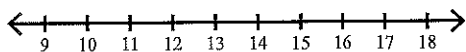
77)  $7(-4x + 6) + 6$

76)  $-7 + 2(1 + 6p)$

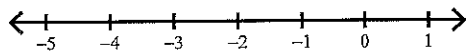
78)  $-3n - 10(10 + 6n)$

Solve each inequality and graph its solution.

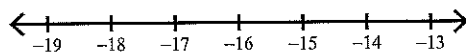
79)  $a + 1 < 14$



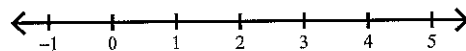
81)  $-12 \geq p - 9$



80)  $x - 3 \leq -19$



82)  $-10 < k - 11$



Solve each equation.

83)  $-14 = x + 6x$

84)  $-n - 3n = 24$

85)  $-12 = 2(1 + a)$

86)  $-4 = 2(v - 1)$

87)  $-5x + 5x = 7x - 3 + 4 + 6$

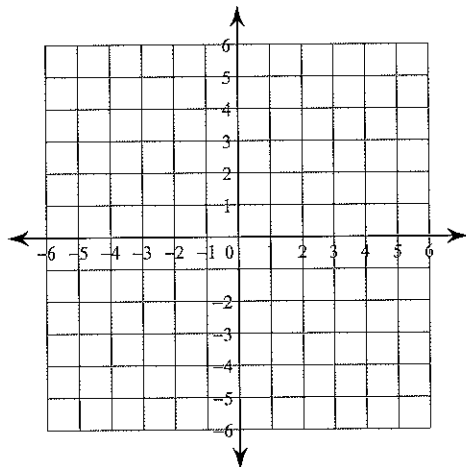
88)  $7 - 3x = -x + 5$

89)  $-8a - 36 = -2(6a + 7) - 7a$

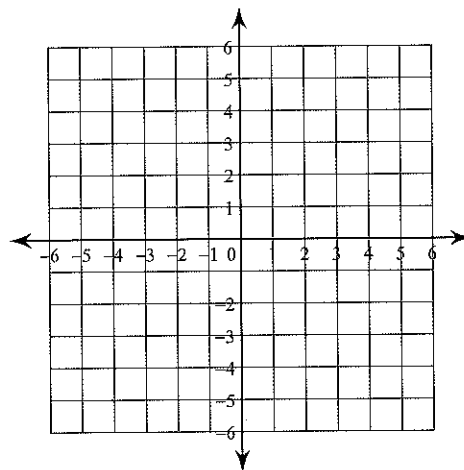
90)  $-33 + 6k = -2 - 5(6k - 1)$

7.3 and 7.4 STOP HERE. Sketch the graph of each line.

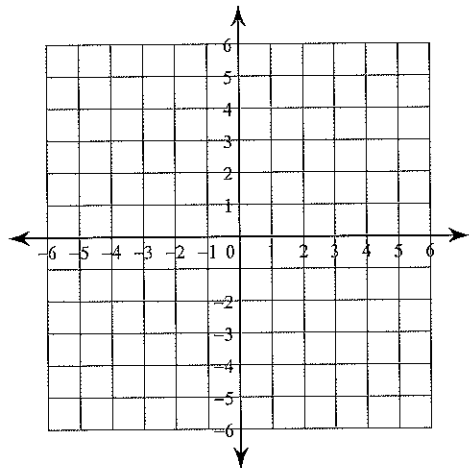
91)  $x = 5$



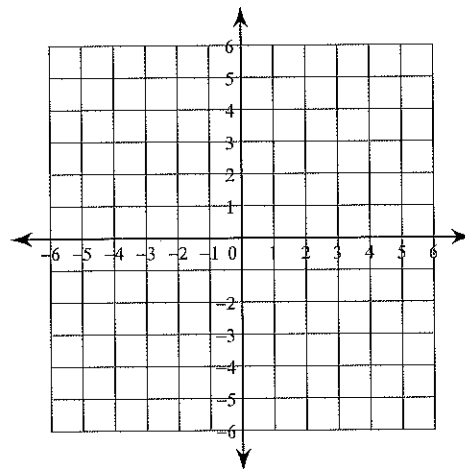
92)  $y = -\frac{5}{2}x + 4$



93)  $x + y = 1$

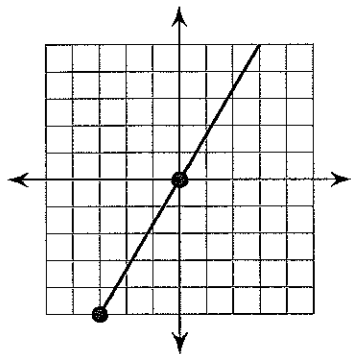


94)  $4x - 3y = -9$

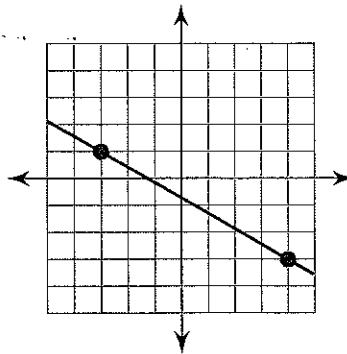


Find the slope of each line.

95)



96)



Find the slope of the line through each pair of points.

97)  $(-7, 14), (-20, -10)$

98)  $(-20, -7), (12, 4)$

Find the slope of each line.

99)  $y = -7x + 5$

100)  $y = -\frac{7}{5}x - 5$