Entering Intro. to Algebra Name_____

Summer Math Packet

Evaluate each expression.

1) $(-1) - (-2)$

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

3) $(-2) - 1 - (-4)$

4) $(-5) - (-5) - (-5)$

5) $(-3.6) + 6.3$

6) $2 + (-2.2)$

7) $7.1 - (-0.1) - 1.6$

8) $2 - (-1.5) + (-6.69)$

9) $\frac{2}{7} - 2\frac{1}{3}$

10) $\left(-1\frac{1}{4}\right) - \left(-\frac{4}{7}\right)$

11) $1 - \left(-3\frac{5}{8}\right)$

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

Round each to the place indicated.

13) 5.80

14) 1.4249

Write the name of each decimal place indicated.

15) 7.124773

16) 4.084478

Evaluate each expression.

17) $(5 \cdot 3) \div 3$

18) $4 - (6 - 3)$

19) $4 + 4 \cdot 5$

20) $5 \cdot \frac{6}{6}$

Evaluate each using the values given.

21) $b + a + 1$; use $a = 6$, and $b = 6$

22) $h - (j - j)$; use $h = 4$, and $j = 4$

Simplify each expression.

23) $-7(4x + 9)$

24) $-(-7x + 2)$

Write each as an algebraic expression.

25) n squared

26) 2 increased by x

Write each as a verbal expression.

27) $11 \cdot 11$

28) $n - 4$

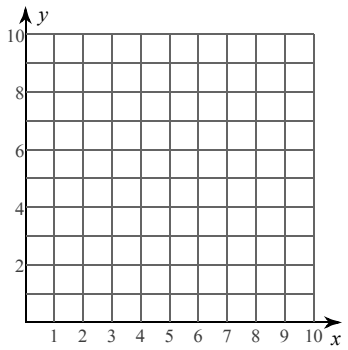
Evaluate each expression.

29) 3 increased by 5

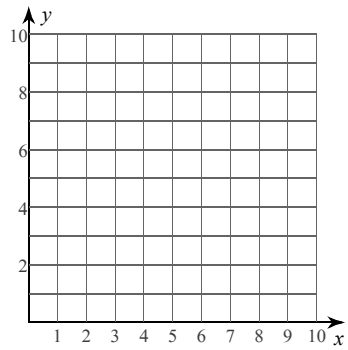
30) 7 more than 3

Plot each point.

31) $E(4, 5)$ $F(9, 5)$ $G(7, 8)$
$H(10, 3)$ $I(1, 4)$

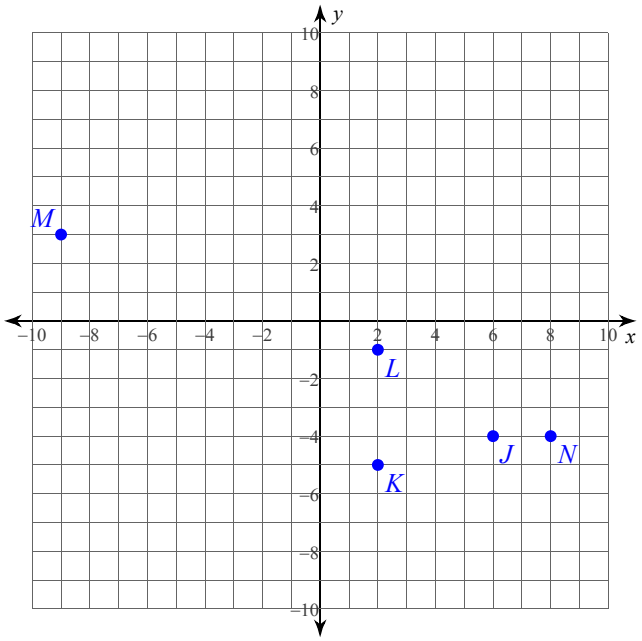


32) $D(6, 10)$ $E(7, 4)$ $F(0, 2)$
$G(10, 9)$ $H(1, 4)$

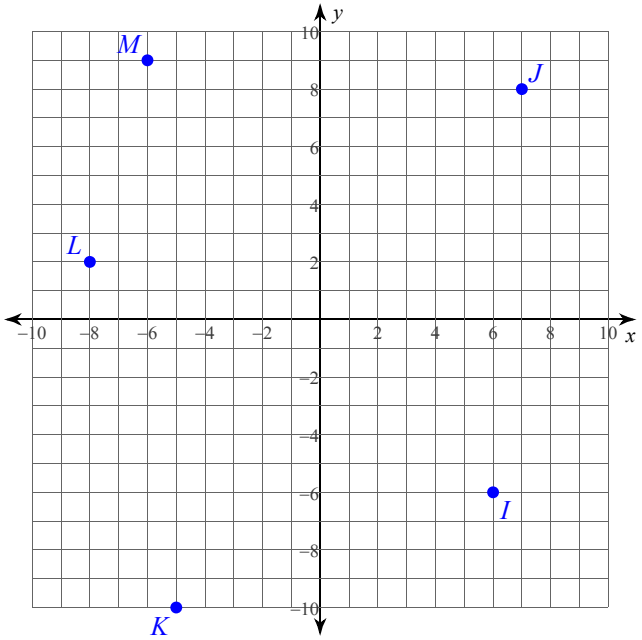


State the coordinates of each point.

33)

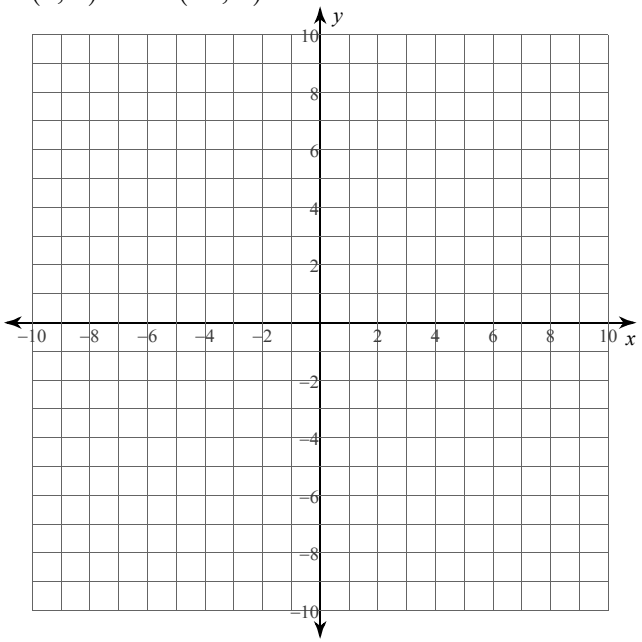


34)

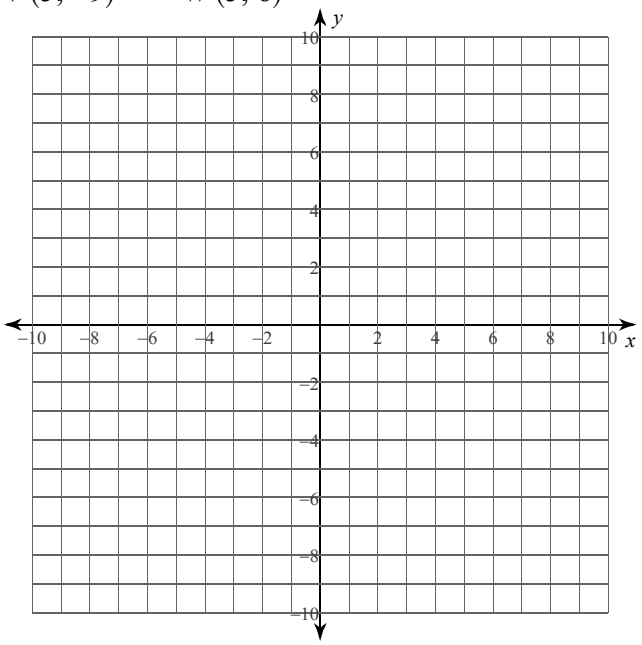


State the quadrant or axis that each point lies in.

35) $G(-5, 7)$ $F(7, 3)$ $E(-4, -1)$
$D(1, 8)$ $C(-6, 6)$



36) $S(-2, -10)$ $T(9, -10)$ $U(4, 3)$
$V(5, -9)$ $W(5, 6)$



Solve each equation.

37) $30 = 11 + p$

38) $-1 + x = 13$

39) $12 = \frac{b}{12}$

40) $3x = 3$

Solve each inequality.

41) $x - 14 > -29$

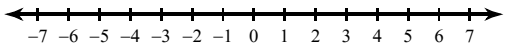
42) $-23 \geq a - 20$

43) $0 \leq -15n$

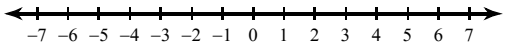
44) $-9 > \frac{x}{14}$

Draw a graph for each inequality.

45) $n > 2$

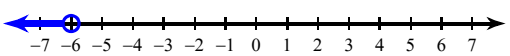


46) $x \leq 3$

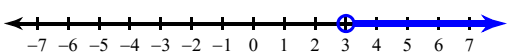


Write an inequality for each graph.

47)



48)



Solve each problem.

49) 23 is what percent of 33?

50) What percent of 94 is 2?

51) What is 78% of 37?

52) What is 22% of 21?

53) 159.7 is 23% of what?

54) 72 is 52% of what?

Write each as a percent. Round to the nearest tenth of a percent.

55) 0.4

56) 0.76

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

57) $\frac{1}{100}$

58) $\frac{1}{2}$

Write each as a fraction.

59) 72%

60) 80%

Write each as a decimal. Round to the hundredths place.

61) 6%

62) 90%

Solve each proportion.

63) $\frac{3}{n} = \frac{8}{5}$

64) $\frac{x}{4} = \frac{6}{8}$