Math 7 Name_____ ID: 1

Assignment #1

Date_____ Period____

Write each as an algebraic expression.

1) x increased by 10

2) 18 decreased by 11

3) the quotient of 56 and x

4) m more than 5

5) the quotient of 44 and r

6) the quotient of n and 5

7) a increased by 12

8) 10 increased by x

Evaluate each expression.

9) $(3 - 1) \div 2$

10) $(4 \times 2) \div 2$

11) $(4 - 3)^2$

12) $(13 - 3) \div 5$

13) $4^3 - 6$

14) $(7 + 1) \div 4$

15) $4 - (6 - 5)$

16) $12 \div (2 \times 3)$

17) $5 - 2 - 1$

18) $(5 - 2) \times 5$

Solve each equation.

19) $p - 4 = -23$

20) $p - 1 = -7$

21) $76 = -4x$

22) $360 = -18n$

23) $22 = 9 + n$

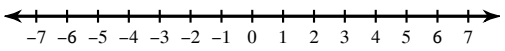
24) $-8 = v + 11$

25) $-9p = 126$

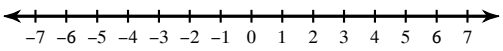
26) $-9 + a = -19$

Draw a graph for each inequality.

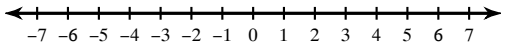
27) $n < -1$



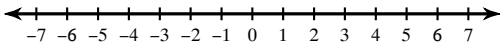
28) $n < -2$



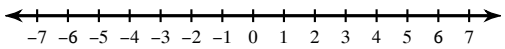
29) $a \geq 5$



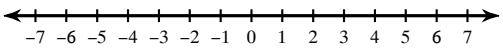
30) $x > -4$



31) $b > 0$

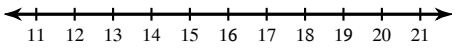


32) $x < -5$

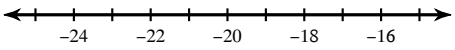


Solve each inequality and graph its solution.

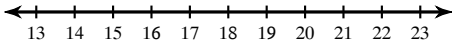
33) $26 \geq 13 + b$



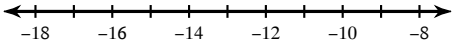
34) $-40 > 2k$



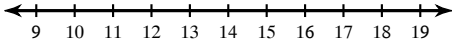
35) $r - 16 < -1$



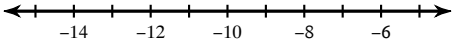
36) $r + 7 \leq -4$



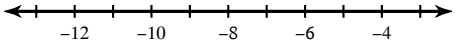
37) $v - 4 \leq 13$



38) $48 < -6a$



39) $5 > p + 13$



40) $-17a \leq 153$