Math 7-2 Name_____

Test #1 Practice

1) For a field trip 9 students rode in cars and the rest filled five buses. How many students were in each bus if 289 students were on the trip?

2) The sum of three consecutive even numbers is 30. What is the smallest of these numbers?

3) Sumalee's Bikes rents bikes for $20 plus $8 per hour. Bill paid $76 to rent a bike. For how many hours did he rent the bike?

4) The sum of three consecutive odd numbers is 75. What is the smallest of these numbers?

5) 348 students went on a field trip. Nine buses were filled and 6 students traveled in cars. How many students were in each bus?

6) The sum of three consecutive odd numbers is 69. What is the smallest of these numbers?

7) You had $25 to spend on seven raffle tickets. After buying them you had $4. How much did each raffle ticket cost?

8) 82 students went on a field trip. Three buses were filled and 19 students traveled in cars. How many students were in each bus?

9) 261 students went on a field trip. Four buses were filled and 29 students traveled in cars. How many students were in each bus?

10) For a field trip 17 students rode in cars and the rest filled four buses. How many students were in each bus if 105 students were on the trip?

Solve each equation.

11) $5k - 3 - 2 = 15$

12) $p - 1 - 5 = -12$

13) $5 = r + 1 + 5$

14) $2x + 4x = 0$

15) $b - 5 + 5 = 5$

16) $1 + 4b + 3b = -6$

17) $-3n + 4n = 2$

18) $-5x - 5 + 6x = -5$

19) $-5 = 3 + 5x + 3x$

20) $1 + 6x + 6x = 1$

21) $34 + 5p = -4(3 - 7p)$

22) $-2(4 - 2a) = 5a - 2$

23) $7(6a - 8) = -16 + 2a$

24) $4x + 28 = -8(x - 8)$

25) $25 + 6r = -4r + 5(8r + 5)$

26) $-8(-8k - 1) - 3 = -3k + 5$

27) $4(r - 1) = 8 - 2r$

28) $4 - 7n = -4(7n - 5) + 5n$

29) $-9 - x = -5(7 + 5x) + 2$

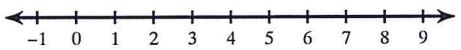
30) $-3a - 3 = 3(8a + 8)$

31) $6(2x - 7) - 1 = -18 + 7x$

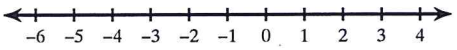
32) $26 + 6p = 5(p + 5)$

Solve each inequality and graph its solution.

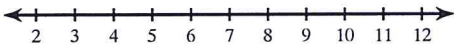
33) $-3 + a < 4 + 6(1 - 2a)$



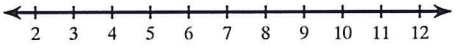
34) $39 - 3x < -5 + 7(-4 - 3x)$



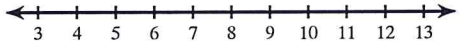
35) $-31 - 6v > -5 - 6(v + 3)$



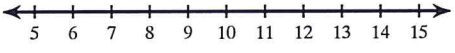
36) $-7(p + 2) > -10 - 7p$



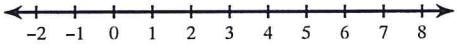
37) $-32 + 4n \leq -4(7 - n)$



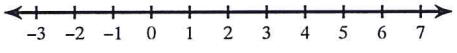
38) $-6 - 2v < -3(2v + 2) + 4v$



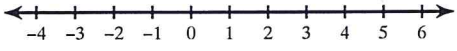
39) $4(a + 3) - 7a \leq 12 + 5a$



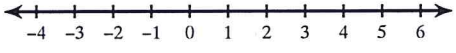
40) $27 - 2v < 3 - 7(v - 7)$



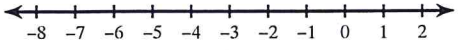
41) $-8x - 40 > -4(1 + 5x)$



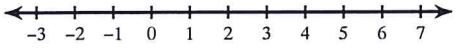
42) $-5(6 + 8r) \geq -6r + 38$



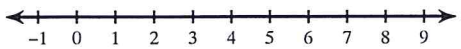
43) $4(-3n + 3) < 36 - 8n$



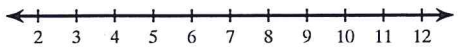
44) $-8(-3x + 7) \leq 36 + x$



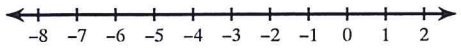
45) $-1 + 7p \geq 4(p + 5)$



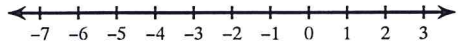
46) $-4(6x - 6) < -40 - 8x$



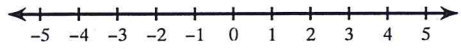
47) $31 - 2n > 8(1 - 3n) - n$



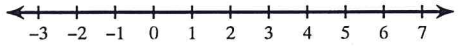
48) $8 - 8m > 8(4m + 1)$



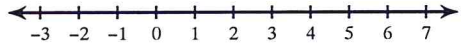
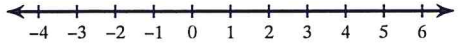
49) $-6b + 3(2 + 8b) < -5 + 7b$



50) $8m - 11 > 3(5 - 6m)$



51) $-7(-5 + 5x) + 3x \geq 35 - 5x$



52) $7(3p + 3) > 8p - 5$