NAME: Period: Score: / = % =

Unit 1 Review Sheet

Int 2 Equations and Inequalities **Unit 1**

Solve. Check your solution(s). Graph your answers on the inequalities.

1) $-3.2 = -2x$

2) $\frac{3}{8}g = \frac{2}{3}$

3) $2.2v = 58.3$

4) $\frac{5}{6}k = 1\frac{7}{8}$

5) $\frac{3}{4} = -1\frac{3}{5}x$

6) $9 - 5y = -76$

7) $-37.14 = 1.8c + 30$

8) $\left|\frac{3}{4}h + 8\right| = 25$

9) $\frac{g}{3} + 10 = 14$

10) $\frac{|m+6|}{-3} = -2$

11) $\frac{w}{7} - 13 = -61$

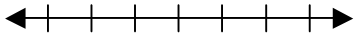
12) $\frac{d-6}{5} = -3$

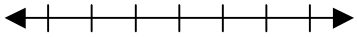
Solve the following inequalities. Then, graph your answers on the number lines provided.

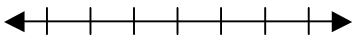
13) $\frac{1}{4}x - 60 \geq 8$

14) $9 < 4x - 7$

15) $\frac{m+14}{-10} > 6$







Solve each equation. Check your solution. **<u>Graph</u> your answers on the inequalities.**

16) $13f = 16f + 45$

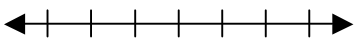
17) $5b - 10 = 7b + 4$

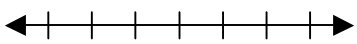
18) $6n - 8 = 2n$

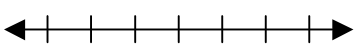
19) $4 + 2w > 8w + 16$

20) $4m + 11 \geq 6 - m$

21) $-3x + 12 \leq 3x - 6$







Solve each equation. Check your solution(s).

22) $4+2r+7=2r-6$

23) $\frac{2}{3}t-7=5-\frac{2}{3}t$

24) $\frac{5}{6}x-12=\frac{1}{6}x+12$

25) $1.4f+1.1=8.3-f$

26) $-5\left(w-17=42\right)$

27) $\frac{7n+(-5)}{-3}=11$

28) $10z+42=3\left(3z+14\right)+z$

29) $35.5=5\left(a-2.5\right)+3a$

30) $8+\left|4d\right|=28$

31) $7\left(8x-12\right)=-2\left(7x+14\right)$

Determine whether the solution given is correct for the equation. If the given solution is not correct, solve to find the correct solution. Remember to show your work.

32) Solution: x = 4
Equation: $-(7-4x)=9$

33) Solution: k = -2
Equation: $-18-6k=6(1+3k)$

34) Solution: All Real Numbers
Equation: $w+7-4w=2w+7-5w$

35) Solution: b = 10
Equation: $8+\frac{b}{-4}=5.5$

36) Solution: z = 0
Equation: $z+5=-5z+5$

37) Solution: a = 2
Equation: $24a-22=-4(1-6a)$