Warm-Up

Solve each inequality. 1 − (1/3) =

52. $\frac{4}{3}r - 3 < r + \frac{2}{3} - \frac{1}{3}r$

53. $4 - 2m \leq 5 - m + 1$

54. $-2(0.5 - 4s) \geq -3(4 - 3.5s)$

55. $\frac{1}{2}n - \frac{1}{8} \geq \frac{3}{4} + \frac{5}{6}n$

56. $-(8 - s) < 0$

57. $3.8 - k \leq 5.2 - 2k$

52)
$\frac{4}{3}r - 3 < r + \frac{2}{3} - \frac{1}{3}r$
$\frac{4}{3}r - 3 < \frac{2}{3}r + \frac{2}{3}$
$-\frac{2}{3}r \quad -\frac{2}{3}r$
$\frac{2}{3}r - 3 < \frac{2}{3}$
$+3 \quad +3$
$\left(\frac{3}{2}\right)\frac{2}{3}r < \frac{11}{3}\left(\frac{3}{2}\right)$
$r < \frac{11}{2} = 5.5$
$r < 5.5$

53) $4 - 2m \leq 5 - m + 1$
$4 - 2m \leq 6 - m$
$+2m \quad +2m$
$4 \leq 6 + m$
$-6 \quad -6$
$-2 \leq m$
$m \geq -2$

54)
$-2(0.5 - 4s) \geq -3(4 - 3.5s)$

56)
$-1(8 - s) < 0$
$-8 + s < 0$
$+8 \quad +8$
$s < 8$

55) $\frac{1}{2}n - \frac{1}{8} \geq \frac{3}{4} + \frac{5}{6}n$
$-\frac{5}{6}n \quad -\frac{5}{6}n$
$-\frac{1}{3}n - \frac{1}{8} \geq \frac{3}{4}$
$+\frac{1}{8} \quad +\frac{1}{8}$
$\left(\frac{3}{-1}\right)-\frac{1}{3}n \geq \frac{7}{8}\left(\frac{3}{-1}\right)$
flip
$n \leq \frac{-21}{8}$
$n \leq -2.625$

57)
$3.8 - k \leq 5.2 - 2k$
$+k \quad +k$
$3.8 \leq 5.2 - k$
$-5.2 \quad -5.2$
$\frac{-1.4}{-1} \leq \frac{-k}{-1}$
flip
$1.4 \geq k$
$k \leq 1.4$

HW Check

11. $\frac{w}{2} + 4 > 5$

$-4 \quad -4$

$2 \cdot \frac{w}{2} > 1 \cdot 2$

$w > 2$

13. $\frac{p}{-8} + 9 > 13$

$-9 \quad -9$

$-8 \cdot \frac{p}{-8} > 4 \cdot (-8)$

$p < -32$

15. $6 \geq -6(a + 2)$

$6 \geq -6a - 12$

$+12 \qquad +12$

$\frac{18}{-6} \geq \frac{-6a}{-6}$

$-3 \leq a$

$a \geq -3$

17. $4 - 2m > 7 - 3m$

$+3m \qquad +3m$

$4 + 1m > 7$

$-4 \qquad -4$

$m > 3$

18. $8n + 2 \leq 8n - 9$

$-8n \qquad -8n$

$2 \leq -9$

False → N.S.

19. $-2d - 2 < 3d + 8$

20. $8 + 10f > 14 - 2f$

21. $8g - 5g - 4 \leq -3 + 3g$

1st Name = 1st Partner

2nd Name = 2nd Partner

Quiz Next Class

Wednesday Nov 29th

Study: Words, Solving, Graphing