

Warm-Up

Solve each inequality.

$1 - (1/3) =$

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

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

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

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

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

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

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

$$\begin{aligned}
 &53) \quad 4 - 2m \leq 5 - m + 1 \\
 &4 - 2m \leq 6 - m \\
 &\quad +2m \quad +2m \\
 &4 \leq 6 + m \\
 &-6 \quad -6 \\
 &-2 \leq m \\
 &\quad \underbrace{\hspace{1cm}} \\
 &m \geq -2
 \end{aligned}$$

$$\begin{aligned}
 &54) \\
 &-2(0.5 - 4s) \geq -3(4 - 3.5s)
 \end{aligned}$$



$$\begin{aligned}
 &56) \\
 &-1(8 - s) < 0 \\
 &-8 + s < 0 \\
 &\quad +8 \quad +8 \\
 &s < 8
 \end{aligned}$$

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

$$\begin{aligned}
 &57) \\
 &3.8 - k \leq 5.2 - 2k \\
 &\quad +k \quad +k \\
 &3.8 \leq 5.2 - k \\
 &-5.2 \quad -5.2 \\
 &-1.4 \leq -k \\
 &\quad -1 \quad -1 \\
 &\quad \text{flip} \\
 &\quad \underbrace{\hspace{1cm}} \\
 &k \leq 1.4
 \end{aligned}$$

HW Check

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

$$\quad \quad \quad \cancel{-4} \quad \cancel{-4}$$

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

$$w > 2$$

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

$$\quad \quad \quad \cancel{-9} \quad \cancel{-9}$$

$$\cancel{-8} \cdot \frac{p}{\cancel{-8}} > 4 \cdot \cancel{-8}$$

$$p < -32$$

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

$$6 \geq -6a - 12$$

$$\quad \quad \quad \cancel{+12} \quad \quad \quad \cancel{+12}$$

$$18 \geq -6a$$

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

$$\underbrace{-3 \leq a}_{a \geq -3}$$



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

$$\quad \quad \quad \cancel{+3m} \quad \quad \quad \cancel{+3m}$$

$$4 + 1m > 7$$

$$\quad \quad \quad \cancel{-4} \quad \quad \quad \cancel{-4}$$

$$\cancel{1}m > 3$$

$$18. \cancel{8}n + 2 \leq \cancel{8}n - 9$$

$$\quad \quad \quad \cancel{-8n} \quad \quad \quad \cancel{-8n}$$

$$2 \leq -9$$

$$\text{False} \rightarrow \text{N.S.}$$

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

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

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

Group 1 Henry Antoine	Group 3 Laudela Beatriz	Group 5 Higor Gabriel
Group 2 Joana Fabio	Group 4 Selena Ana	

Back Regroup Inject all groups

1st Name = 1st Partner

2nd Name = 2nd Partner

Quiz Next Class

Wednesday Nov 29th

Study: Words, Solving, Graphing