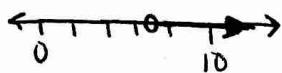


# HW58

1.  $x > 7$   
 $(7, \infty)$



2.  $3y \geq -18$   
 $y \geq -6$   
 $(-6, \infty)$



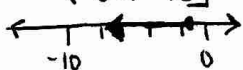
3.  $10 \geq 2m$   
 $-5 \leq m$   
 $[-5, \infty)$



4.  $-(c+5) \geq -1$   
 $c+5 \leq 1$   
 $c \leq -4$   
 $(-\infty, -4]$



5.  $2(x-3) \leq -9$   
 $x-3 \leq -9/2$   
 $x \leq -3/2$   
 $(-\infty, -3/2]$



6.  $-3(w+7) > 3$   
 $w+7 < -1$   
 $w < -8$   
 $(-\infty, -8)$



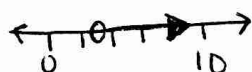
7.  $|6| < 7(2-7r)$   
 $23 < 2-7r$   
 $21 < -7r$   
 $-3 > r$   
 $(-\infty, -3)$



8.  $2(4-x) < -8$   
 $4-x < -4$   
 $-x < -8$   
 $x > 8$   
 $(8, \infty)$



9.  $-6(4x+6) > -108$   
 $4x+6 < 18$   
 $4x < 12$   
 $x < 3$   
 $(-\infty, 3)$



10.  $\frac{4}{5}$

11.  $\frac{34}{2} \cdot \frac{51}{3} = 17 \cdot 17 = 289$   
 $\frac{2}{3}$

12.  $\frac{84}{2} = 42$   
 $\frac{42}{6} = 7$   
 $\frac{7}{3} = \frac{7}{3}$

$\frac{2 \cdot 2 \cdot 3 \cdot 7}{2 \cdot 2 \cdot 3 \cdot 3} = \frac{7}{3}$

13.  $\left(\frac{5}{5}\right)\frac{3}{2} + \frac{4}{5}\left(\frac{2}{2}\right)$   
 $\frac{15}{10} + \frac{8}{10} = \frac{23}{10}$

14.  $\frac{12}{10} = \frac{6}{5}$

15.  $\frac{3}{4}\left(\frac{3}{3}\right) + \frac{5}{6}\left(\frac{2}{2}\right)$   
 $\frac{9}{12} + \frac{10}{12} = \frac{19}{12}$

16.  $\frac{15}{24}$

17.  $\frac{2}{1}\left(\frac{6}{7}\right) = \frac{12}{7}$

18.  $\frac{-3}{1}\left(\frac{x}{2}\right) = \frac{-3x}{2}$

19.  $\frac{5}{3} - \frac{3}{1}\left(\frac{3}{3}\right)$   
 $\frac{5}{3} - \frac{9}{3} = \frac{-4}{3}$

20.  $\frac{13}{5}\left(\frac{2}{2}\right) - \frac{3}{2}\left(\frac{5}{5}\right)$   
 $\frac{26}{10} - \frac{15}{10} = \frac{11}{10}$