

A#30

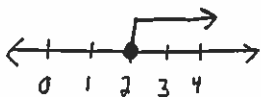
Key

p. 943 #28-42

28. $7 - 8n \leq 4n - 17$

$-12n \leq -24$ *

$n \geq 2$



29. $8(m+2) < 4(5+2m)$ 30. $6d - 4 - 3d \geq 14$

$8m + 16 < 20 + 8m$

$16 < 20$ Always True

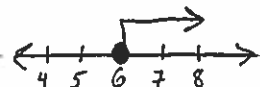
$m = \{ \text{All real } \neq 5 \}$



$3d + (-4) \geq 14$

$3d \geq 18$

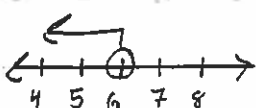
$d \geq 6$



31. $\frac{2}{3}y + 28 > 20 + 2y$

$(-\frac{2}{3})(-\frac{4}{3}y) > (-8)(-\frac{3}{3})$ *

$y < 6$

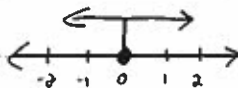


32. $6(-5+3p) \geq 3(6p-10)$

$-30 + 18p \geq 18p + (-30)$

$-30 \geq -30$ Always True

$p = \{ \text{All Real } \neq 5 \}$



33. $\frac{5}{6}(12z-24) > \frac{2}{5}(25z-25)$

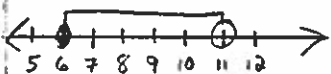
$10z + (-20) > 10z + (-10)$

$-20 > -10$ Always False

No Real Solution

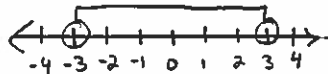
34. $2 \leq y - 4 < 7$

$6 \leq y < 11$



35. $-27 < 9x < 27$

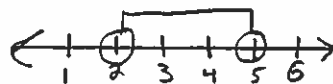
$-3 < x < 3$



36. $2 < 6z - 10 < 20$

$12 < 6z < 30$

$2 < z < 5$

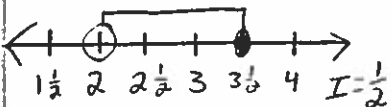


37. $15 < \frac{5}{9}(18a-9) \leq 30$

$15 < 10a + (-5) \leq 30$

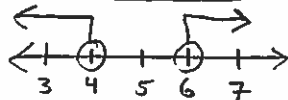
$20 < 10a \leq 35$

$2 < a \leq 3\frac{1}{2}$



38. $2v > 12$ or $v + 2 < 6$

$v > 6$ or $v < 4$

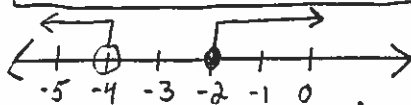


39. $3r + 7 < -5$ or $32 \leq 7r + 46$

$3r < -12$ or $-14 \leq 7r$

$r < -4$ or $-2 \leq r$

$r < -4$ or $r \geq -2$

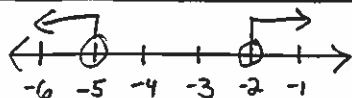


A#30 continued
p. 943 #40-42

Key

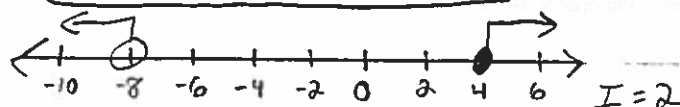
40. $-4m < 8$ or $2m - 2 < -12$
 $m > -2^*$ or $2m < -10$

$m > -2$ or $m < -5$



41. $9t - 20 \geq 4t$ or $4 < \frac{1}{2}t^*$
 $5t + (-20) \geq 0$ or $-8 > t$
 $5t \geq 20$ or $t < -8$

$t \geq 4$ or $t < -8$



42. $-n - 1 > 1$ or $2n + 8 > n + 8$
 $-n > 2^*$ or $n + 8 > 8$

$n < -2$ or $n > 0$

