

1. $d = rt$ (solve for t)

$$\frac{d}{r} = t$$

2. $g = \frac{1}{2}(w + 40)$ (solve for w)

$$2g = w + 40$$

$$-40 \quad -40$$

$$2g - 40 = w$$

3. $P = 2W + 2L$ (solve for L)

$$-2W \quad -2W$$

$$\frac{P - 2W}{2} = \frac{2L}{2}$$

$$L = \frac{P - 2W}{2}$$

4. $y = mx + b$ (solve for m)

$$-b \quad -b$$

$$\frac{y - b}{x} = \frac{mx}{x}$$

$$m = \frac{y - b}{x}$$

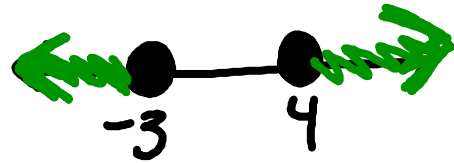
5. $-3 < m - 5 \leq -1$
 $+5 \quad +5 \quad +5$

$2 < m \leq 4$



6. $\frac{k}{4} \geq 1$ or $\frac{k}{3} \leq -1$
 $\cdot 4 \quad \cdot 3$

$k \geq 4$ or $k \leq -3$



7. $8x - 13 \leq -2 + 7x$ and $20 + 4x < 2x + 14$
 $-7x \quad -7x \quad -2x \quad -2x$

$x - 13 \leq -2$ $20 + 2x < 14$
 $+13 \quad +13 \quad -20 \quad -20$

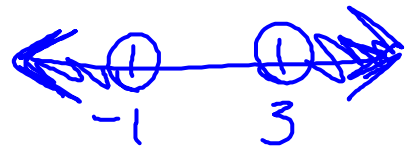
$x \leq 11$ or $\frac{2x < -6}{2} \quad \frac{2x < -6}{2}$
 $x < -3$



8. $9 + 2b < 7$ or $7 - 5b < -8$
 $-9 \quad -9 \quad -7 \quad -7$

$2b < -2$ $-5b < -15$
 $\frac{2b < -2}{2} \quad \frac{-5b < -15}{-5}$

$b < -1$ or $b > 3$

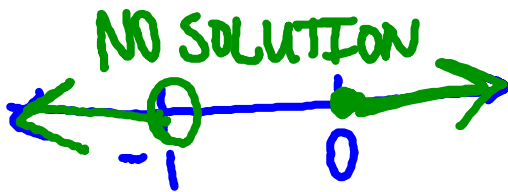


9. $-7t + 8 > 15$ and $13 - 14t \leq 13 - 3t$
 $-8 \quad -8 \quad +14t \quad +14t$

$\frac{-7t}{-7} > \frac{7}{-7}$ $\frac{13}{-13} \leq \frac{13+11t}{-13}$

$t < -1$ $\frac{0}{11} \leq \frac{11t}{11}$

AND
 $0 \leq t$
 $t \geq 0$



10. $\frac{1}{3}x + 8 > 7$ or $-2(x-5) \leq -4$
 $-8 \quad -8$

$3 \cdot \frac{1}{3}x > -1 \cdot 3$ $-2x + 10 \leq -4$
 $-10 \quad -10$

$x > -3$ OR $\frac{-2x}{-2} \leq \frac{-14}{-2}$
 $x \geq 7$



11. $|-7x + 4| = 18$

$-7x + 4 = 18$ OR $-7x + 4 = -18$
 $-4 \quad -4 \quad -4 \quad -4$

$\frac{-7x}{-7} = \frac{14}{-7}$ $\frac{-7x}{-7} = \frac{-22}{-7}$

$x = -2$ OR $x = \frac{22}{7}$

12. $|1 - 6n| + 3 = 46$
 $-3 \quad -3$

$|1 - 6n| = 43$

$1 - 6n = 43$ OR $1 - 6n = -43$
 $-1 \quad -1 \quad -1 \quad -1$

$\frac{-6n}{-6} = \frac{42}{-6}$ OR $\frac{-6n}{-6} = \frac{-44}{-6}$

$n = -7$ OR $n = \frac{22}{3}$

13. $5 \cdot \frac{|3v-2|}{5} = 4 \cdot 5$

$|3v-2| = 20$

$3v-2=20$ OR $3v-2=-20$
 $+2 \quad +2 \qquad +2 \quad +2$

$\frac{3v}{3} = \frac{22}{3}$

$\frac{3v}{3} = \frac{-18}{3}$

$v = \frac{22}{3}$ OR $v = -6$

AND

14. $|n+9| \leq 1$

$n+9 \leq 1$ AND $n+9 \geq -1$
 $-9 \quad -9 \qquad -9 \quad -9$

$n \leq -8$ AND $n \geq -10$



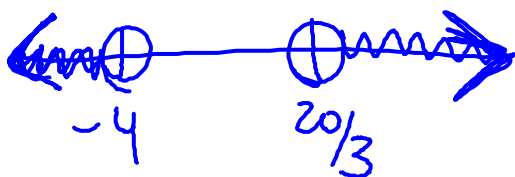
15. $|8-6m| > 32$ OR

$8-6m > 32$ OR $8-6m < -32$
 $-8 \quad -8 \qquad -8 \quad -8$

$\frac{-6m}{-6} > \frac{24}{-6}$

$\frac{-6m}{-6} < \frac{-40}{-6}$

$m < -4$ OR $m > \frac{20}{3}$



16. $|-9+p| + 5 < 24$

$-5 \quad -5$

$|-9+p| < 19$ AND

$-9+p < 19$ AND $-9+p > -19$
 $+9 \quad +9 \qquad +9 \quad +9$

$p < 28$ AND $p > -10$

