

Name: \_\_\_\_\_

Key

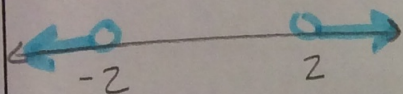
Period: \_\_\_\_\_

Assignment: 3.6 Practice (PH)

\*\*Digits work earns you credit, not just answers.\*\*

1)  $|d| > 2$

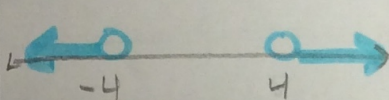
$d > 2$  or  $d < -2$



3)  $|2k| > 8$

$\frac{2k}{2} > \frac{8}{2}$        $\frac{2k}{2} < \frac{-8}{2}$

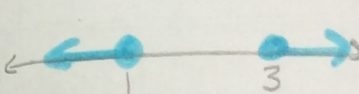
$k > 4$  or  $k < -4$



5)  $|3c - 6| \geq 3$

$3c - 6 \geq 3$        $3c - 6 \leq -3$   
 $+6$        $+6$        $+6$        $+6$   
 $3c \geq 9$        $3c \leq 3$

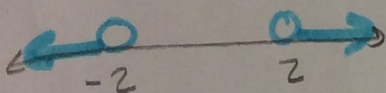
$c \geq 3$  or  $c \leq 1$



7)  $|3.5z| > |7|$

$3.5z > 7$        $3.5z < -7$

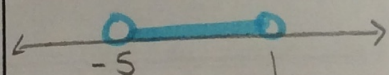
$z > 2$  or  $z < -2$



9)  $9 > |6 + 3t|$

$6 + 3t < 9$        $6 + 3t > -9$   
 $-6$        $-6$   
 $3t < 3$        $3t > -15$   
 $t < 1$        $t > -5$

$-5 < t < 1$



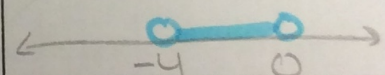
11)  $5 > |v + 2| + 3$

$-3$        $-3$   
 $2 > |v + 2|$

$v + 2 < 2$        $v + 2 > -2$   
 $-2$        $-2$

$v < 0$        $v > -4$

$-4 < v < 0$

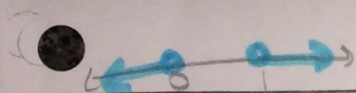


13)  $|2n - 1| \geq 1$

$2n - 1 \geq 1$        $2n - 1 \leq -1$   
 $+1$        $+1$

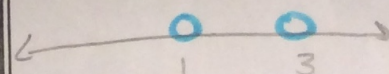
$2n \geq 2$        $2n \leq 0$

$n \geq 1$  or  $n \leq 0$



15)  $-2|h - 2| > -2$

$-2(h - 2) > -2$        $-2(h - 2) < 2$   
 $-2h + 4 > -2$        $-2h + 4 < 2$   
 $-4$        $-4$        $-4$        $-4$   
 $-2h > -6$        $-2h > -2$   
 $h < 3$        $h < 1$



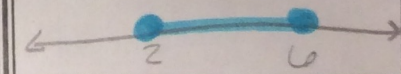
17)  $3|s - 4| + 21 \leq 27$

$3(s - 4) \leq 6$        $3(s - 4) \geq -6$   
 $3s - 12 \leq 6$        $3s - 12 \geq -6$   
 $+12$        $+12$        $+12$        $+12$

$3s \leq 18$        $3s \geq 6$

$s \leq 6$        $s \geq 2$

$2 \leq s \leq 6$





119) 19)

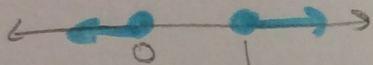
$$-\frac{1}{2}|6x-3| \leq -\frac{3}{2}$$

$$-\frac{1}{2}(6x-3) \leq -\frac{3}{2} \quad -\frac{1}{2}(6x-3) \geq \frac{3}{2}$$

$$-3x + \frac{3}{2} \leq -\frac{3}{2} \quad -3x + \frac{3}{2} \geq \frac{3}{2}$$

$$-3x \leq -3 \quad -3x \geq 0$$

$$x \geq 1 \quad \text{or} \quad x \leq 0$$



120) 21)  $|a| = 9.5$

$$a = 9.5 \quad a = -9.5$$

$$a = \pm 9.5$$

121) 23)

$$|d| - 25 = -13$$

$$+25 \quad +25$$

$$d = 12 \quad d = -12$$

$$d = \pm 12$$

122) 25)  $|3c| - 45 = -18$

$$+45 \quad +45$$

$$3c = 27$$

$$c = \pm 9$$

123) 27)  $|x| = -0.8$

NO solution

124) 29)

$$|s-25| \leq 3$$

$$s-25 \leq 3 \quad s-25 \geq -3$$

$$+25 \quad +25 \quad +25 \quad +25$$

$$s \leq 28 \quad s \geq 22$$

$$22 \leq s \leq 28$$

125) 31)

$$|s-72| \leq 2$$

$$s-72 \leq 2 \quad s-72 \geq -2$$

$$+72 \quad +72 \quad +72 \quad +72$$

$$s \leq 74 \quad s \geq 70$$

$$70 \leq s \leq 74$$

126) 33)

$$|t-58.2| \leq 6.4$$

$$t-58.2 \leq 6.4 \quad t-58.2 \geq -6.4$$

$$51.8 \leq t \leq 64.6$$

127) 35)

$$|w-125.2| \leq 0.4$$

$$w-125.2 \leq 0.4 \quad w-125.2 \geq -0.4$$

$$124.8 \leq w \leq 125.6$$