Les Inégalités
Mathématiques 9

Nom: Clé
Div: ___ Date: _____

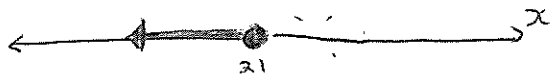
Résoudrez les inégalités et montrez vos réponses sur les droites numériques.

1) $2x-4\leq 38$

$+4 \quad +4$

$\frac{2x}{2} \leq \frac{42}{2}$

$\boxed{x \leq 21}$



2) $5x+8>3x+22$

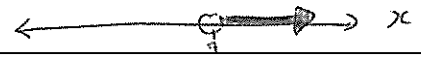
$-8 \quad -8$

$5x > 3x+14$

$-3x \quad -3x$

$\frac{2x}{2} > \frac{14}{2}$

$x > 7$



3) $7m-8\geq 37-9m$

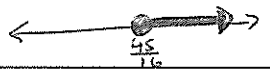
$+9m \quad +9m$

$16m-8 \geq 37$

$+8 \quad +8$

$\frac{16m}{16} \geq \frac{45}{16}$

$m \geq \frac{45}{16}$



4) $8-5p<2p+7$

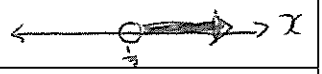
$+5p \quad +5p$

$8 < 7p+7$

$-7 \quad -7$

$\frac{1}{7} < \frac{7p}{7}$

$\frac{1}{7} < p$



5) $9(2m-4)\geq 90$

$18m-36 \geq 90$

$+36 \quad +36$

$\frac{18m}{18} \geq \frac{126}{18}$

$m \geq \frac{126}{18} = \frac{63}{9} = \frac{21}{3} = 7$

$m \geq 7$

6) $2(5x-8)<3x-44$

$10x-16 < 3x-44$

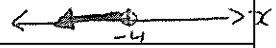
$+16 \quad +16$

$10x < 3x-28$

$-3x \quad -3x$

$\frac{7x}{7} < \frac{-28}{7}$

$x < -4$



7) $2p-8+3p\leq 8p-17$

$5p-8 \leq 8p-17$

$+8 \quad +8$

$5p \leq 8p-9$

$-8p \quad -8p$

$\frac{-3p}{-3} \leq \frac{-9}{-3}$

$p \geq 3$

8) $2(3x-7)-2x\leq 3x+19-2$

$6x-14-2x \leq 3x+19-2$

$4x-14 \leq 3x+17$

$+14 \quad +14$

$4x \leq 3x+31$

$-3x \quad -3x$

$x \leq 31$

9) $\left(\frac{b}{6}-9\geq\frac{2}{5}\right)\times 30$

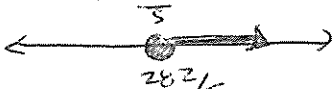
$\frac{30b}{6} - 270 \geq \frac{60}{5}$

$5b-270 \geq 12$

$+270 \quad +270$

$\frac{5b}{5} \geq \frac{282}{5}$

$b \geq \frac{282}{5}$



10) $\left(4c-\frac{1}{2}>\frac{2c}{3}+5\right)\times 6$

$24c-\frac{6}{2} > \frac{12c}{3}+30$

$24c-3 > 4c+30$

$-4c \quad -4c$

$20c-3 > 30$

$+3 \quad +3$

$\frac{20c}{20} > \frac{33}{20}$

$c > \frac{33}{20}$