
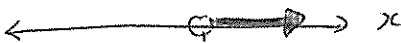



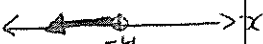


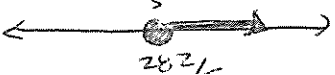


Les Inégalités
Mathématiques 9

Nom: Cle
Div: _____ Date: _____

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

<p>1) $2x - 4 \leq 38$</p> $\begin{array}{r} +4 \quad +4 \\ \hline 2x \leq 42 \\ \frac{2x}{2} \leq \frac{42}{2} \\ \hline x \leq 21 \end{array}$ 	<p>2) $5x + 8 > 3x + 22$</p> $\begin{array}{r} -8 \quad -8 \\ \hline 5x > 3x + 14 \\ -3x \quad -3x \\ \hline 2x > 14 \\ \frac{2x}{2} > \frac{14}{2} \\ x > 7 \end{array}$ 
<p>3) $7m - 8 \geq 37 - 9m$</p> $\begin{array}{r} +9m \quad +9m \\ \hline 16m - 8 \geq 37 \\ +8 \quad +8 \\ \hline 16m \geq 45 \\ \frac{16m}{16} \geq \frac{45}{16} \\ m \geq \frac{45}{16} \end{array}$ 	<p>4) $8 - 5p < 2p + 7$</p> $\begin{array}{r} +5p \quad +5p \\ \hline 8 < 7p + 7 \\ -7 \quad -7 \\ \hline 1 < 7p \\ \frac{1}{7} < \frac{7p}{7} \\ \frac{1}{7} < p \end{array}$ 
<p>5) $9(2m - 4) \geq 90$</p> $\begin{array}{r} 18m - 36 \geq 90 \\ +36 \quad +36 \\ \hline 18m \geq 126 \\ \frac{18m}{18} \geq \frac{126}{18} \\ m \geq \frac{126}{18} = \frac{63}{9} = \frac{21}{3} = 7 \\ m \geq 7 \end{array}$ 	<p>6) $2(5x - 8) < 3x - 44$</p> $\begin{array}{r} 10x - 16 < 3x - 44 \\ +16 \quad +16 \\ \hline 10x < 3x - 28 \\ -3x \quad -3x \\ \hline 7x < -28 \\ \frac{7x}{7} < \frac{-28}{7} \\ x < -4 \end{array}$ 
<p>7) $2p - 8 + 3p \leq 8p - 17$</p> $\begin{array}{r} 5p - 8 \leq 8p - 17 \\ +8 \quad +8 \\ \hline 5p \leq 8p - 9 \\ -8p \quad -8p \\ \hline -3p \leq -9 \\ \frac{-3p}{-3} \leq \frac{-9}{-3} \\ p \geq 3 \end{array}$ 	<p>8) $2(3x - 7) - 2x \leq 3x + 19 - 2$</p> $\begin{array}{r} 6x - 14 - 2x \leq 3x + 17 - 2 \\ 4x - 14 \leq 3x + 15 \\ -3x \quad -3x \\ \hline x - 14 \leq 15 \\ +14 \quad +14 \\ \hline x \leq 31 \end{array}$ 
<p>9) $\left(\frac{b}{6} - 9 \geq \frac{2}{5}\right) \times 30$</p> $\begin{array}{r} \frac{30b}{6} - 270 \geq \frac{60}{5} \\ 5b - 270 \geq 12 \\ +270 \quad +270 \\ \hline 5b \geq 282 \\ \frac{5b}{5} \geq \frac{282}{5} \\ b \geq \frac{282}{5} \end{array}$ 	<p>10) $\left(4c - \frac{1}{2} > \frac{2c}{3} + 5\right) \times 6$</p> $\begin{array}{r} 24c - \frac{6}{2} > 12c + 30 \\ 24c - 3 > 12c + 30 \\ -12c \quad -12c \\ \hline 12c - 3 > 30 \\ +3 \quad +3 \\ \hline 12c > 33 \\ \frac{12c}{12} > \frac{33}{12} \\ c > \frac{33}{12} \end{array}$ 