

Selesaikan ketaksamaan linear yang berikut. **S.P: 7.2.2 TP3**

Solve the following linear inequalities.

Contoh

$$\begin{aligned} x - 3 &\leq 9 \\ x - 3 + 3 &\leq 9 + 3 \\ x &\leq 12 \end{aligned}$$

(a) $x - 6 < -3$

$$\begin{aligned} x &\square - 3 + 6 \\ x &\square \square \end{aligned}$$

(b) $x + 10 \geq -2$

$$\begin{aligned} x &\square - 2 - \square \\ x &\square \end{aligned}$$

(c) $\frac{x}{3} > -4$

$$\begin{aligned} x &\square - 4 \times \square \\ x &\square \end{aligned}$$

(d) $\frac{x}{5} \geq \frac{1}{3}$

$$\begin{aligned} x &\square \frac{1}{3} \times \square \\ x &\square \square \end{aligned}$$

(e) $\frac{x}{10} \geq -\frac{3}{5}$

$$\begin{aligned} x &\square - \frac{3}{5} \times \square \\ x &\square \square \end{aligned}$$

(f) $2x > -12$

$$\begin{aligned} x &> \frac{-12}{2} \\ x &> \square \end{aligned}$$

(g) $5x \leq 25$

$$\begin{aligned} x &\leq \frac{25}{5} \\ x &\leq \square \end{aligned}$$

(h) $6x \geq 14$

$$\begin{aligned} x &\geq \frac{14}{6} \\ x &\geq \square \end{aligned}$$

(i) $-3x \geq 15$

$$\begin{aligned} x &\square \frac{15}{-3} \\ x &\square \square \end{aligned}$$

(j) $\frac{1}{4}x > 2$

$$\begin{aligned} x &\square 2 \times \square \\ x &\square \square \end{aligned}$$

(k) $-8x < -2$

$$\begin{aligned} x &\square \frac{-2}{-8} \\ x &\square \square \end{aligned}$$

(l) $\frac{1}{2}x + 4 \leq -2$

$$\begin{aligned} \frac{1}{2}x &\leq -2 - 4 \\ \frac{1}{2}x &\leq -6 \quad x \leq \square \end{aligned}$$

(m) $\frac{1}{4}x + 6 < 5$

$$\begin{aligned} \frac{1}{4}x &< 5 - 6 \\ \frac{1}{4}x &< -1 \quad x < \square \end{aligned}$$

(n) $\frac{1}{8}x - 4 \leq 5$

$$\begin{aligned} \frac{1}{8}x &\leq 5 + 4 \\ \frac{1}{8}x &\leq 9 \quad x \leq \square \end{aligned}$$