

Fill in the Blanks

Set Notation for Inequalities

| Inequality/Inequalities | In Set Notation |
|---|--|
| $x \geq 3.2$ | $\{x: x \geq 3.2\}$ |
| $-2 \leq x < 5$ | $\{x: x \geq -2\} \cap \{x: x < 5\}$ |
| $x < -8$ or $x \geq 3$ | $\{x: x < -8\} \cup \{x: x \geq 3\}$ |
| $-\frac{1}{2} < x < 4$ | $\{x: x > -\frac{1}{2}\} \cap \{x: x < 4\}$ |
| $-\frac{1}{2} < x < 4$ | $\{x: -\frac{1}{2} < x < 4\}$ |
| $x < \frac{7}{2}$ and $x > 1$ | $\{x: x < \frac{7}{2}\} \cap \{x: x > 1\}$ |
| $x \leq 1$ or $x \geq 6.5$ | $\{x: x \leq 1\} \cup \{x: x \geq 6.5\}$ |
| $-\frac{3}{4} \leq x \leq -\frac{1}{4}$ | $\{x: x \geq -\frac{3}{4}\} \cap \{x: x \leq -\frac{1}{4}\}$ |
| $x \leq -3$ or $2 < x < 5$ | $\{x: x \leq -3\} \cup \{x: 2 < x < 5\}$ |
| $x > 10$ or $-1 \leq x < 0$ | $\{x: x > 10\} \cup \{x: -1 \leq x < 0\}$ |
| $x \geq 5$ or $x < \frac{3}{2}$ | $\{x: x \geq 5\} \cup \{x: x < \frac{3}{2}\}$ |
| $-2 \leq x < \frac{3}{5}$ or $x > 1$ | $\{x: -2 \leq x < \frac{3}{5}\} \cup \{x: x > 1\}$ |
| $x < 9$ and $x \geq \frac{2}{3}$ | $\{x: x < 9\} \cap \{x: x \geq \frac{2}{3}\}$ |