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| **Fill in the Blanks** | **Set Notation for Inequalities** |

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