



① $x - 2 < -4$ 

② $-6k + 7 \leq -29$ 


③ $3t + 8 \leq -1$ 

④ $2x + 4 > x + 6$ 

⑤ $-11 < 2x - 3 < 3$ 

⑥ $t + 1 \geq 4$ or $t + 2 \leq 0$ 

⑦ $9 \leq x - 4 < 10$ 

⑧ $4 < 6x - 8$ or ~~$5 < -5x$~~ $5 < -5x$ 

Write an inequality to represent each situation.

9. **Ten pounds of fresh tomatoes make between 10 and 15 cups of cooked tomatoes. How many cups does one pound of tomatoes make?**

10. **About 20% of the time you sleep is spent in rapid eye movement (REM) sleep, which is associated with dreaming. If an adult sleeps 7 to 8 hours, how much time is spent in REM sleep?**

11. **Hector's doctor told him that his cholesterol level must be below 200. Hector's cholesterol is 225. Find the number of points Hector should lower his cholesterol.**

12. **The cruise-control function on Georgia's car should keep speed of the car within 3 mi/h of the set speed. Write a compound inequality to show the acceptable speeds 's' if the set speed is 55 mi/h.**

13. **Water is not a liquid if its temperature is above 100°C or below 0°C . Write a compound inequality for the temperatures 't' when water is not liquid.**