

9. $5k \le -20$ OR $2k \ge 8$

10. $2s + 3 \le 7$ OR 3s + 5 > 26

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Write a compound inequality for each problem. Graph the solutions.

11. The human ear can distinguish sounds between 20 Hz and 20,000 Hz, inclusive.

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12. For a man to box as a welterweight, he must weigh more than 140 lbs, but at most 147 lbs.



2.6 - Practice C

Solving Compound Inequalities Solve each compound inequality and graph the solutions. 1. -1 < 4x - 3 < 52. $3a - 5 \le -2$ OR $3a - 5 \ge 13$ 3. $-y - 2 < 6 \text{ OR } 4y + 8 \le 20$ 4. $3 \le -2x + 1 \le 9$ <-----6. $\frac{1}{2}z + 3 < -4$ OR $\frac{2}{3}z - 1 \ge \frac{1}{5}$ 5. -5k < -10 OR 3k > -97. $-2 \le \frac{n+2}{3} \le 4$ 8. p + 4 > 6 AND $3p \le -18$ 9. The United States Postal Service charges a "nonmachinable surcharge" for first-class mail if the length of the envelope (parallel to the address) divided by the height of the envelope is less than 1.3 or more than 2.5. Jakob has an envelope with a height of 3.5 inches. Write

a compound inequality to show the lengths in inches for which Jakob will have to pay the surcharge. Graph the solutions.

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