

## 5-4 Study Guide and Intervention

### Solving Compound Inequalities

**Definition:** A **compound inequality** consists of two inequalities joined by the words *and* or *or*. The graph of a compound inequality involving *and* is the intersection of the graphs of either inequality. The graph of a compound inequality involving *or* is the union of the graphs of either inequality.

#### Example 1

**Compound inequality involving *and* (intersection of graphs):**

- a. Solve each inequality.

$$\text{Inequality 1: } x + 3 < 10$$

- b. Graph *a*.

$$\text{Inequality 2: } x + 2 < 8$$

- c. Graph *a* and *b*.

$$\text{Compound inequality: } x + 3 < 10 \text{ and } x + 2 < 8$$

- d. Graph the solution.

$$\text{Compound inequality: } x + 3 < 10 \text{ and } x + 2 < 8$$

- e. Write the solution set.

$$\text{Compound inequality: } x + 3 < 10 \text{ and } x + 2 < 8$$

- f. Graph *e*.

$$\text{Compound inequality: } x + 3 < 10 \text{ and } x + 2 < 8$$

**Write each compound inequality. Then graph the solution set.**

- a. *x* is greater than 2.

$$x > 2$$

$$\text{Inequality 1: } x > 2$$

- b. *x* is less than 6.

$$x < 6$$

$$\text{Inequality 2: } x < 6$$

- c. *x* is greater than 3.

$$\text{Inequality 1: } x > 3$$

- d. *x* is less than 10.

$$\text{Inequality 2: } x < 10$$

- e. *x* is greater than 1 and less than 5.

$$1 < x < 5$$

$$\text{Inequality 1: } x > 1$$

# Study Guide For The Compound Answers

**Martin Silberberg, Libby Weberg**



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2nd 2018 this 53 second video from december 12 1969 shows a hyper iii drop test from an sh 3 helicopter once the hyper iii was dropped from the helicopter it glided the lockheed mc 130 is the basic designation

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web 2 aircraft landing gear drop test simulation and design evolution 2022 08 21 absorber based on magnetorheological mr damper with a metering pin is proposed and structure of the magnetic circuit of mr damper is optimized by drop tests the damping characteristics of the shock absorber and damping effect are tested the experimental