

**Students solve multistep problems, including word problems, involving linear equations and linear inequalities in one variable and provide justification for each step 1A5.0**

**162.** Colleen solved the equation  $2(2x + 5) = 8$  using the following steps.

**Given:**  $2(2x + 5) = 8$

**Step 1:**  $4x + 10 = 8$

**Step 2:**  $4x = -2$

**Step 3:**  $x = -\frac{1}{2}$

**To get from Step 2 to Step 3, Colleen—**

- A** divided both sides by 4.
- B** subtracted 4 from both sides.
- C** added 4 to both sides.
- D** multiplied both sides by 4.

**163.** Solve for  $x$ .

$$5(2x - 3) - 6x < 9$$

- A**  $x < -1.5$
- B**  $x < 1.5$
- C**  $x < 3$
- D**  $x < 6$

**164.** Which inequality represents the solution of  $(11x + 2) + (6x + 4) + (x + 5) > 90$ ?

- A**  $x > \frac{79}{18}$
- B**  $x > \frac{79}{17}$
- C**  $x > \frac{101}{18}$
- D**  $x > \frac{101}{17}$