

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 $x > \frac{101}{17}$