

8.EE.C.7b ADDITIONAL PRACTICE

For questions 1-8, solve for the variable.

1) $9 = \frac{x+5}{2}$

2) $\frac{2}{3}a = \frac{3}{4}$

3) $\frac{1}{4}b + \frac{1}{2} = 1$

4) $\frac{1}{3}k - \frac{1}{2}k = 5$

5) $4(3x - 1) = 2(x + 3)$

6) $\frac{2}{5}(5x - 15) = 8$

7) $2(y + 7) \geq \frac{6y}{5} + 6$

8) $\frac{3x+8}{4} < -10$

8.EE.C.7b ADDITIONAL PRACTICE (cont'd)

- 9)** At work one weekend, Lance earned a \$50 bonus and worked at his usual rate of \$13.50 an hour as a lifeguard over the summer. If he earned a total of \$272.75 that weekend, how many hours did he work?
- 10)** Joanna has \$1.60 in nickels and dimes. If she has 4 more dimes than she does nickels, write an equation that can be used to determine how many nickels and dimes she has. Then, use the equation to determine the number of nickels and dimes.
- 11)** Matt's work to solve the inequality is shown below. Identify the errors that he made. Then, solve the inequality to identify the correct solution.

$$5 - \frac{1}{3}(3x - 6) \geq 0$$

$$-\frac{1}{3}(3x - 6) \geq -5$$

$$-1x - 6 \geq -5$$

$$-1x \geq 1$$

$$x \geq -1$$