

# 1.7 Solving Equations, Literally

## *A Practice Understanding Task*

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Solve each of the following equations for  $x$ :

1.  $\frac{3x+2}{5} = 7$

2.  $\frac{3x+2y}{5} = 7$

3.  $\frac{4x}{3} - 5 = 11$

4.  $\frac{4x}{3} - 5y = 11$

5.  $\frac{2}{5}(x+3) = 6$

6.  $\frac{2}{5}(x+y) = 6$

7.  $2(3x+4) = 4x+12$

8.  $2(3x+4y) = 4x+12y$

Write a verbal description for each step of the equation solving process used to solve the following equations for  $x$ . Your description should include statements about how you know what to do next. For example, you might write, "First I \_\_\_\_\_, because \_\_\_\_\_."

9.  $\frac{ax+b}{c} - d = e$

10.  $r \cdot \sqrt{\frac{mx}{n}} + s = t$

