

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