

# 3-5 Solving equations by adding or subtracting

①

Questions/Main Ideas:	Notes:
Standards,	<p>N.S. 1.2</p> <p>How any different?</p> <p>↳ Nothing, simply adding and subtracting decimals now.</p> <p>① simplify first</p> <p>② use the - subtraction property of Equality or - addition property of equality to isolate variable</p> <p>③ solve/find solution.</p> <p>④ substitute in solution to check you work.</p>
optional but good practice. →	<p>Ex</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>1.) <math>x + 7.6 = 11.9</math></p> <math display="block">\begin{array}{r} x + 7.6 = 11.9 \\ - 7.6 \quad - 7.6 \\ \hline x = 4.3 \end{array}</math> <p><math>(4.3) + 7.6 = 11.9</math></p> <p><math>11.9 = 11.9</math></p> <p>so 4.3 is solution.</p> </div> <div style="text-align: center;"> <p>2.) <math>x - 3.9 = 7.4</math></p> <math display="block">\begin{array}{r} x - 3.9 = 7.4 \\ + 3.9 \quad + 3.9 \\ \hline x = 11.3 \end{array}</math> <p><math>(11.3) - 3.9 = 7.4</math></p> <p><math>7.4 = 7.4</math></p> <p>so 3.9 is solution.</p> </div> </div>
	<p><u>write equation</u></p> <p>Jorge spent 36.97 on a new PS3 game. He only has \$113.76 left how much did he start with?</p>

Summary:

Eq:  $x - 36.97 = 113.76$

$$\begin{array}{r} x - 36.97 = 113.76 \\ + 36.97 \quad + 36.97 \\ \hline x = 150.73 \end{array}$$

$(150.73) - 36.97 = 113.76$

$113.76 = 113.76$

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HW page 144, 145

Done FmsH  
PB