

**Essential Question: How do I change a word problem into an equation?**

<b>Questions /Main Ideas</b>	<b>Class Notes</b>						
<p>What is an equation?</p>	<p>An <b>equation</b> is a mathematical sentence that uses an equal sign to show that two expressions are equal.</p> <table data-bbox="581 541 1079 651"> <thead> <tr> <th data-bbox="581 541 763 577"><u><b>Expressions</b></u></th> <th data-bbox="933 541 1079 577"><u><b>Equations</b></u></th> </tr> </thead> <tbody> <tr> <td data-bbox="581 577 657 613">4 + 8</td> <td data-bbox="933 577 1079 613">4 + 8 = 12</td> </tr> <tr> <td data-bbox="581 613 657 651">X + 8</td> <td data-bbox="933 613 1079 651">x + 8 = 12</td> </tr> </tbody> </table> <p>To write a word sentence as an equation, look for key words or phrases such as <b>is</b>, <b>the same as</b>, or <b>equals</b> to determine where to place the equal sign.</p>	<u><b>Expressions</b></u>	<u><b>Equations</b></u>	4 + 8	4 + 8 = 12	X + 8	x + 8 = 12
<u><b>Expressions</b></u>	<u><b>Equations</b></u>						
4 + 8	4 + 8 = 12						
X + 8	x + 8 = 12						

**Summary**

To change a word problem into an equation, determine where to put the equal sign by looking for key words. Use other key words (sum, quotient, etc. ) to determine your operation.