Creating Open Questions	
 Turning Around a Question Asking for Similarities and Differences 	3. Replacing a Number, etc. with a Blank4. Asking for a Number Sentence
Turning Around a Question	Asking for Similarities and Differences
Example: • What is the hypotenuse of a right triangle if the legs are 3 units and 4 units long? Becomes: • One side of a right triangle is 5 units long. What could the other lengths be?	Example: Which of these calculations do you see as most alike? Why? $3\pi - 4\pi = -\pi$ $8\sqrt{2} + 3\sqrt{2} = 11\sqrt{2}$ $3\sqrt{8} + 4\sqrt{2} = 10\sqrt{2}$
Replacing a Number, etc. with a Blank	Asking for a Sentence
Example: $\frac{4m}{5} - \frac{1}{2} = -\frac{25}{2}$, solve for m Becomes: • The solution to an equation is $m = -15$ and involves a fraction. What might that equation be? $_m + __ = __$	Example: Create a sentence that includes the words "linear" and "increasing" and the numbers 4 and 9 Possible answers: An increasing linear pattern could include the numbers 4 and 9. In a linear pattern starting at 4 and increasing by 9, the tenth number will be 85. A linear pattern that is increasing by 9 grows faster than one that is increasing by 4.