**HOW TO SOLVE WORD PROBLEMS?**

The hardest thing about doing word problems is taking the English words and translating them into mathematics. Usually, once you get the math equation, you're fine; the actual math involved is often fairly simple.

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| **Step 1: Read** the problem 2 or 3 times to get a general idea.  **Step 2: Identify** the known and unknown highlighting/ underlining.  **Step 3**: **Write** a let statement for each of the unknowns.  **Step 4: Translate** English sentences into mathematical expressions and equations.  **Step 5**: **Solve.**  **Step 6: Check.**  **Step 7: State** your answer in a short sentence.  **\*\*PUT FORMAL MATH ON THE LEFT** **\*\*SKETCH, NOTES, GRAPHS ON THE RIGHT** |

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| **KEY WORDS IN WORD PROBLEMS** | |
| **DIVISION**  **division.PNG** | **MULTIPLICATION**  **times.PNG** |
| **ADDITION**  **plus.PNG** | **SUBTRACTION**  **minus.PNG** |
|  |  |
| **EQUALS**  **minus.PNG**  **minus.PNG** | |
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**Example 1:** Find a number when subtracted by 4 it is the same as when the number has been increased by 3 and then halved.

**Example 2**

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| Ian owns a small airplane. He pays $50/h for flying time and $300/month for hangar fees at the local airport. If Ian rented the same type of airplane at the local flying club, it would cost him $100/h. How many hours will Ian have to fly each month so that the cost of renting will be the same as the cost of flying his own plane? |

**SOLUTION**