**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 |

With a partner, brainstorm as many words you possibly can for each operation.

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| **DIVISION**  **division.PNG** | **MULTIPLICATION**  **times.PNG** |
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| **ADDITION**  **plus.PNG** | **SUBTRACTION**  **minus.PNG** |
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| **EQUALS**  **minus.PNG**  **minus.PNG** | |
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**Type 1: Number Problems:**

1. Three footballs and one soccer ball cost $155. Two footballs and three soccer balls cost $220. Find the cost of a football and the cost of a soccer ball.
2. A tennis club charges an annual fee and an hourly fee for court time. One year, Tony played for 39 hours and paid $384, while Sandra played for 51 hours and paid $456. Find the annual fee and the hourly fee

**Type 2: Interest Problems**

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| Chloe has $12000 to invest. She invested part of it in bonds paying 8% per year and the remainder in a second mortgage paying 9% per year. After one year the total interest from these investments was $1043. How much did Chloe invest at each rate? |