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Grade Level/Subject: 8<sup>th</sup> Math

Topic: Word Problem Foldable

Objectives (P.A.S.S.): Standard 2.1b - Use the basic operations on rational numbers to solve problems in real-life situations.

Introduction: The teacher will review some of the known math terms with the students such as sum, difference, product, quotient, etc.. Then, the teacher will introduce real life word problems to the students with familiar and unfamiliar terms. After some discussion of the terms the students will begin making the foldable to use on future word problems.

Instructional process: The students will create a foldable to help them solve difficult word problems. The teacher will give the students directions (attached) to make the foldable. This is one of the easier foldables for 8th graders. As the teacher discusses the foldable he/she should give examples of where each component can be used and why it is important. The students will then be able to use their foldables on daily work.

Closure: The teacher will review the terms that should be on the students' foldable to make sure that they have all of the important information. If time permits, the teacher will let the students use their foldables to work some word problems either on the board or in their notebooks.

Assessment: The teacher will grade each foldable by ensuring that each student has all of the important information listed on the foldable instructions. The student must have all of the information, so the teacher will have the students add information if needed to get credit for the foldable.

Modifications/Accommodations: The teacher will provide an ELL student with a Spanish/English math reference book to aide in the communication of the concepts. A gifted student will be allowed to work at a faster pace on the foldable by following the instructions and they will be allowed to decorate the foldable when they are finished.

Reflection: N/A (I have been on maternity leave since August 17 and have not taught any lessons this school year.)

## FOLDABLE – DIFFICULT WORD PROBLEMS

**MATERIALS:** 8 ½ x 11 colored paper, scissors, markers

**STEP 1:** Fold a sheet of paper “hot dog” style

**STEP 2:** Unfold the paper. Holding the paper horizontally in front of you, make 16 evenly spaced cuts up to the center fold of the paper.

**STEP 3:** On each of the tabs write one of the following terms on the outside and the sign that corresponds with that term on the inside.

- Sum +
- Difference -
- Less than -
- More than +
- Times x
- Is x
- Squared  $()^2 = \_ x \_$
- Increased by +
- Decreased by -
- Minus -
- Half of  $() x \frac{1}{2}$
- Twice  $() x 2$
- Product x
- Quotient  $\div$
- Doubled  $() x 2$
- Of x
- *Write your name on the bottom or top tab.*

**STEP 4:** DECORATE!!!