

## “Distraction Proof” Addition

For Adding Columns of Numbers When There Isn't a Calculator Available

Lesson plan (to be adjusted as difficulties arise or if everyone is succeeding faster than anticipated.)

1. Prepare in advance for the kids a list of two digit numbers replicated three times (see page 12)
2. Show them a fully worked problem, and ask them to talk about what they see, NOT how to do it.
3. Model twice –
  - Model & have them watch, speculate and talk about what I am doing as I do it, all while I say nothing, just overact
  - If needed, model again with the same numbers telling what I'm doing with choral involvement
4. Have them do the same problem (copy no. 3) in groups of two to four helping each other
5. Ask them to do another (number 4) in groups of two
6. Ask them to do number 5 and double check neighbors – help as needed
7. Reform groups of 4 – ask them to figure out number 6
8. Ask groups of 2 to do number 7
9. Assign number 8

## A Few Involvement Options:

- Choral repetition (usually 3 repeats required) – with important words (e.g. a formula) (should be written on board or overhead) or with important phrases (sometimes written)
- Today we're going to work with this formula – it's called the quadratic formula – Point to it and say, please say it with me ... repeat, jokingly repeat, and again
- The next step is to ..., say it with me ... repeat (oh, come on help me out here, say it with me ...)
- Choral repetition to rhetorical questions (repeat)
- Check with a neighbor
- Compare with people around you
- Raise your hand if people around you ...
- Let's do this together
- Do this one in groups of four – make sure everyone is okay
- Do this one now in groups of two – make sure everyone is okay
- Do this one now by yourself – double check with what I have on the overhead or your neighbors – make sure everyone is okay