## Ways to Add 2 Digit and 1 Digit Numbers

## Summary

Adapted from a lesson in Math Expressions. Students practice three strategies for adding 2 digit and 1 digit numbers.

## Main Core Tie

Mathematics Grade 1
Strand: NUMBER AND OPERATIONS IN BASE TEN (1.NBT) Standard 1.NBT. 4
Time Frame
3 class periods of 45 minutes each
Group Size
Large Groups
Materials
Pencils and paper or mini-whiteboards and markers
Large paper and markers
Headings to cut out (attached)
Scissors and glue

## Background for Teachers

Understanding of strategies for adding
Count on with fingers
Draw all with sticks and circles
Count on with sticks and circles

## Student Prior Knowledge

Understanding of how to count on with fingers and how to represent two digit numbers using (tens) sticks and (ones) circles

## Intended Learning Outcomes

Students will use three different strategies for adding two-digit and one-digit numbers.
Students will create an infographic showing their three strategies.

## Instructional Procedures

Review counting on with fingers by "putting a number in your head," then "putting the other number on your fingers" and counting on (e.g. say 79 and touch forehead, then hold up 4 fingers and count 80, 81, 82, 83).
Using pencil and paper or mini-whiteboards, review representing 2 digit numbers with sticks and circles. (e.g. $79=1 I I I I I I 000000000$ )
Use the sticks and circles strategy to show adding numbers and combining ones to show new groups of ten (see sample infographic for example). Practice on paper/ whiteboards until students are comfortable with this strategy.
Instead of drawing the 2 digit number, write it in numeral form, then count on using circles and making new groups of ten (see sample infographic for example). Practice on paper/ whiteboards
until students are comfortable with this strategy.
Group students into groups of 2-3. Assign each group a problem like 79+4. Have each group make a poster showing how to solve their addition problem using all three strategies previously practiced. Give each group a copy of the headings to use on their posters but let them decide how to best show the strategies.

Strategies for Diverse Learners
Gifted: Use two 2-digit numbers or one 3-digit number
Struggling: Use single digit numbers, assign student to work with a partner for extra practic, and or allow student to use a 100 chart to count text

Assessment Plan
Assess posters using attached rubric
Assess individual mastery using attached quiz
Rubrics
3 Ways to Add
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