

NUMBER AND OPERATIONS - BASE TEN

NC.4.NBT.4	Add and subtract multi-digit whole numbers up to and including 100,000 using the standard algorithm with place value understanding.
DESCRIPTION	This anchor chart displays four common strategies for adding. This chart was created with students during number talks. It is intended to encourage students to try an alternative strategy and help students correctly identify addition strategies as they use them.

Addition Strategies

ds
to

Adding by place
 $\underline{23} + \underline{15}$
 $\underline{20} + \underline{10} = 30$
 $\underline{3} + \underline{5} = 8$
 $30 + 8 = 38$

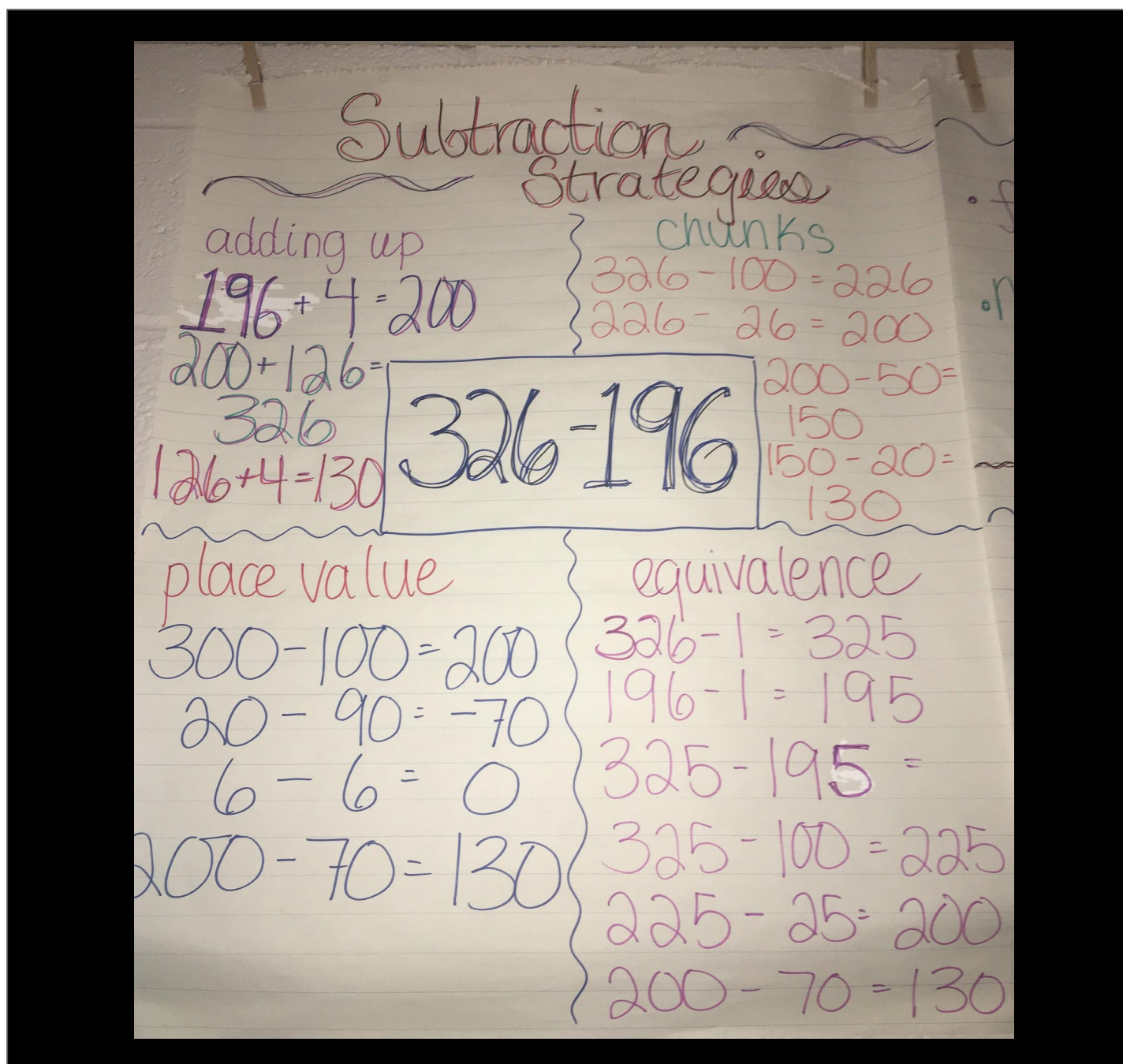
Making Tens
 $\underline{27} + \underline{16} + \underline{13}$
 $\underline{27} + \underline{3} = 30$
 $\underline{10} + \underline{10} = 20$
 $30 + 20 + 6 = 56$

Decomposing
 $\underline{27} + \underline{28}$
 $\underline{20} + \underline{7} + \underline{25} + \underline{3}$
 $\underline{20} + \underline{25} = 45$
 $\underline{7} + \underline{3} = 10$
 $45 + 10 = 55$

Make Friendly Numbers
 $17 + 38$
 $38 - 3 = 35$
 $17 + 3 = 20$
 $20 + 35 = 55$

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NC.4.NBT.4	Add and subtract multi-digit whole numbers up to and including 100,000 using the standard algorithm with place value understanding.
DESCRIPTION	This anchor chart displays four common strategies for subtracting. This chart was created with students during number talks. It is intended to encourage students to try an alternative strategy and help students correctly identify subtraction strategies as they use them.



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<p>NC.4.NBT.4</p>	<p>Add and subtract multi-digit whole numbers up to and including 100,000 using the standard algorithm with place value understanding.</p>
<p>DESCRIPTION</p>	<p>This anchor chart was created to encourage using different strategies for problem solving (decomposing, number lines, and adding to subtract).</p>

Strategies For problem Solving

Addition

Algorithm

$$\begin{array}{r} 322 \\ + 249 \\ \hline 571 \end{array}$$

$322 + 249 = 571$

Decompose:
 $322 + 249 = 571$
 $300 + 200 = 500$
 $20 + 40 = 60$
 $2 + 9 = 11$

Place Value:
 $322 + 249 = 571$
 (Visuals: three 100 blocks, two 20 blocks, two 10 blocks, and nine 1 blocks)

Number Line: Add in chunks
 $322 \xrightarrow{+200} 522 \xrightarrow{+40} 562 \xrightarrow{+9} 571$
 $322 + 249 = 571$

Subtraction

$261 - 149$

Decompose:
 $261 - 149$
 $261 - 100 = 161$
 $161 - 40 = 121$
 $121 - 9 = 112$

Add to Subtract
 $149 + 112 = 261$

Number line Count Backwards
 $261 \xrightarrow{-100} 161 \xrightarrow{-20} 141 \xrightarrow{-9} 132$

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<p>NC.4.NBT.4</p>	<p>Add and subtract multi-digit whole numbers up to and including 100,000 using the standard algorithm with place value understanding.</p>
<p>DESCRIPTION</p>	<p>This anchor chart is designed to help students see a variety of strategies for adding two two-digit numbers, including the algorithm. It is important that students see connections across strategies, and have the opportunity to choose what works best for them.</p>

