

Math: Grade 4, Lesson 3, Addition with Standard Algorithm

Lesson Objective: Addition with Standard Algorithm

Practice Focus: Multi-Digit Whole Number Addition using the standard algorithm

TN Standard: 4.NBT.B.4

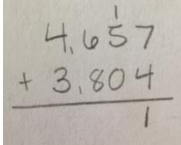
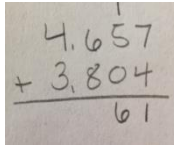
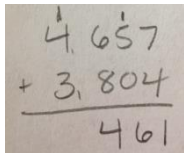
Teacher Materials:

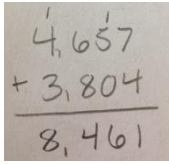
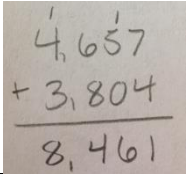
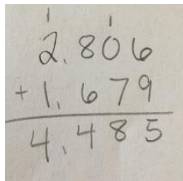
- White board and markers to display teacher think-aloud

Student Materials:

- paper and a pencil
- the student packet for Math, Grade 4, Lesson 3 which can be found at www.tn.gov/education

Teacher Do	Student Do
<p><u>Opening</u> Hello! Welcome to Tennessee's At Home Learning Series for math! Today's lessons is for all our 4th graders out there, though all children are welcome to tune in. This lesson is the third in our series on this topic.</p> <p>My name is ____ and I'm a ____ grade teacher in Tennessee schools! I'm so excited to be your teacher for this lessons. Welcome to my virtual classroom!</p> <p>If you didn't see our previous lesson, you can find it at www.tn.gov/education. You can still tune in to today's lesson if you haven't see any of our others. But, it might be more fun if you first go back and watch our other lessons since we'll be talking about things we learned previously.</p> <p>Today we will be learning about adding multi-digit whole numbers using the standard algorithm. Before we get started, to participate fully in our lesson today you will need:</p> <ul style="list-style-type: none"> • paper and a pencil • the student packet for Math, Grade 4, Lesson 3 which can be found at www.tn.gov/education <p>Ok, let's begin!</p>	<p>Students get materials ready for the lesson.</p>
<p><u>Intro</u> Today we are going to practice adding multi-digit whole numbers using the standard algorithm.</p> <p>[Write 256+100]</p> <p>Say the numbers in unit form. (Pause) That's right, 2 hundreds, 5 tens and 6 ones plus 1 hundred.</p> <p>256 + 100 = 356</p> <p>Think about a strategy to add these numbers. (Pause)</p> <p>For this problem, we can add the hundreds, 200 plus 100,</p>	<p>Students respond</p> <p>Students think of a strategy</p>

<p>then add the tens and ones, plus 5 tens, plus 6 ones equals 356</p> <p>[Repeat the process and sequence for: $256+300$, $256+340$, $256+342$]</p> <p>Answers: 556, 596, 598</p>	
<p>Teacher Model</p> <p>Here's our next problem. At the fair, 4,657 ride tickets were sold on Saturday and 3,804 were sold on Sunday. How many total tickets were sold in all during those two days?</p> <p>Remember, you can use place value to add. Add ones to ones, tens to tens, hundreds to hundreds, and then thousands to thousands. Watch me as I demonstrate this. [Model this for the students]</p> $ \begin{array}{r} 4,657 \\ + 3,804 \\ \hline \end{array} $ <p> $11 \rightarrow 7 \text{ ones} + 4 \text{ ones} = 11 \text{ ones, or } 1 \text{ ten} + 1 \text{ one}$ $50 \rightarrow 5 \text{ tens} + 0 \text{ tens} = 5 \text{ tens}$ $1,400 \rightarrow 6 \text{ hundreds} + 8 \text{ hundreds} = 14 \text{ hundreds, or } 1 \text{ thousand} + 4 \text{ hundreds}$ $+ 7,000 \rightarrow 4 \text{ thousands} + 3 \text{ thousands} = 7 \text{ thousands}$ $8,461$ </p> <p>You can record the sums by showing regrouping above the problem. Follow along with me on your own paper as I model and talk through each step.</p> <p>7 ones + 4 ones = 11 ones or 1 ten + 1 one</p>  <p>1 ten + 5 tens + 0 tens = 6 tens</p>  <p>6 hundreds + 8 hundreds = 14 hundreds or 1 thousand + 4 hundred</p> 	<p>Students should follow along on their own paper.</p>

<p>1 thousand + 4 thousands + 3 thousands = 8 thousands</p>  <p>Here is what it looks like showing all the steps at once.</p> 	
<p><u>Guided Practice</u> Use what you just learned to solve this problem.</p> <p>A baseball stadium sold some burgers. 2,806 were cheeseburgers. 1,679 burgers didn't have cheese. How many total burgers did they sell in all/</p> <p>We need to add the two amounts of cheeseburgers together to find how many they sold in all. [Write the addition problem for students to view. Pause.]</p> <p>How might you solve this problem? [Pause and allow students time to solve problem]</p> <p>We can write this addition problem by showing regrouping above the numbers. Follow along on your paper as I model this one for you. [Model and talk aloud through the solution pictured below.]</p> 	<p>Students think of a strategy</p> <p>Students solve the problem along with the teacher modeling</p>
<p><u>Independent Practice</u> Great job students! Thanks for helping me use the standard algorithm to solve these problems! You sure did a great job! After the video, you will have some problems to practice on your own. Good luck and do your best!</p>	
<p><u>Closing</u> I enjoyed learning about math with you today! Thank you for inviting me into your home. I look forward to seeing you in our next lesson in Tennessee's At Home Learning series. Bye!</p>	

PBS Lesson Series

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