



# Hattiesburg Public School District

## Grade 5 Mathematics Units

### 2015 – 2016



Unit 3: Operations with Decimals	Time Frame: 3 Weeks (Sept 29-Oct 13)
<b>Content Standards</b>	<b>Standards for Mathematical Practice</b>
<b>Major Standards</b>	
<p><b>5.NBT.2</b> Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.</p> <p><b>5.NBT.7</b> Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.</p>	<ol style="list-style-type: none"><li>(1) Make sense of problems and persevere in solving them.</li><li>(2) Reason abstractly and quantitatively.</li><li>(3) Construct viable arguments and critique the reasoning of others.</li><li>(4) Model with mathematics.</li><li>(5) Use appropriate tools strategically.</li><li>(6) Attend to precision.</li><li>(7) Look for and make use of structure.</li><li>(8) Look for and express regularity in repeated reasoning.</li></ol>
<b>Supporting Standards</b>	
<b>Additional Standards</b>	
<p><b>5.OA.1</b> Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.</p> <p><b>5.OA.2</b> Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them. <i>For example, express the calculation “add 8 and 7, then multiply by 2” as <math>2 \times (8 + 7)</math>. Recognize that <math>3 \times (18932</math></i></p>	



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*+ 921) is three times as large as 18932 + 921, without having to calculate the indicated sum or product.*

**Pre-requisite Standards**

Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
Lesson Topic: Adding Decimals to Hundredths Standard Ref: 5.NBT.7 Resource/Strategy: <ul style="list-style-type: none"> <li>● EngageNY-Module 1, Topic D, Lesson 9</li> <li>● <a href="https://grade5com.moncoremath.wiki/spaces.hcpss.org/5.NBT.7">https://grade5com.moncoremath.wiki/spaces.hcpss.org/5.NBT.7</a></li> <li>● <a href="https://learnzillion.com/lessonsets/189-adding-and-subtracting-decimals-to-hundredths">https://learnzillion.com/lessonsets/189-adding-and-subtracting-decimals-to-hundredths</a></li> </ul>	Lesson Topic: Subtracting Decimals to Hundredths Standard Ref: 5.NBT.7 Resource/Strategy: <ul style="list-style-type: none"> <li>● EngageNY-Module 1, Topic D, Lesson 10</li> <li>● <a href="https://grade5com.moncoremath.wiki/spaces.hcpss.org/5.NBT.7">https://grade5com.moncoremath.wiki/spaces.hcpss.org/5.NBT.7</a></li> <li>● <a href="https://learnzillion.com/lessonsets/189-adding-and-subtracting-decimals-to-hundredths">https://learnzillion.com/lessonsets/189-adding-and-subtracting-decimals-to-hundredths</a></li> </ul>	Lesson Topic: Multiplying Decimals Standard Ref: 5.NBT.7 Resource/Strategy: <ul style="list-style-type: none"> <li>● EngageNY-Module 1, Topic E, Lesson 11</li> <li>● <a href="https://grade5com.moncoremath.wiki/spaces.hcpss.org/5.NBT.7">https://grade5com.moncoremath.wiki/spaces.hcpss.org/5.NBT.7</a></li> <li>● <a href="https://learnzillion.com/lessonsets/189-adding-and-subtracting-decimals-to-hundredths">https://learnzillion.com/lessonsets/189-adding-and-subtracting-decimals-to-hundredths</a></li> </ul>	Lesson Topic: Dividing Decimals Standard Ref: 5.NBT.7 Resource/Strategy: <ul style="list-style-type: none"> <li>● EngageNY-Module 1, Topic E, Lesson 12</li> <li>● <a href="https://grade5com.moncoremath.wiki/spaces.hcpss.org/5.NBT.7">https://grade5com.moncoremath.wiki/spaces.hcpss.org/5.NBT.7</a></li> <li>● <a href="https://learnzillion.com/lessonsets/189-adding-and-subtracting-decimals-to-hundredths">https://learnzillion.com/lessonsets/189-adding-and-subtracting-decimals-to-hundredths</a></li> </ul>	Lesson Topic: Multiply & Divide with Powers of Ten Standard Ref: 5.NBT.2 Resource/Strategy: <ul style="list-style-type: none"> <li>● <a href="https://grade5com.moncoremath.wiki/spaces.hcpss.org/5.NBT.2">https://grade5com.moncoremath.wiki/spaces.hcpss.org/5.NBT.2</a></li> <li>● <a href="https://learnzillion.com/lessons/439-multiply-whole-numbers-and-decimals-by-powers-of-ten">https://learnzillion.com/lessons/439-multiply-whole-numbers-and-decimals-by-powers-of-ten</a></li> </ul>



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Lesson 6	Lesson 7	Performance Task		
<p>Lesson Topic: Order of Operations with Decimals Standard Ref: 5.OA.1 Resource/Strategy:</p> <ul style="list-style-type: none"><li>• <a href="https://grade5commoncoremath.wikispaces.hcpss.org/5.OA.1">https://grade5commoncoremath.wikispaces.hcpss.org/5.OA.1</a></li><li>• <a href="https://learnzillion.com/lessonsets/546-use-parentheses-and-interpret-and-evaluate-expressions-with-parentheses">https://learnzillion.com/lessonsets/546-use-parentheses-and-interpret-and-evaluate-expressions-with-parentheses</a></li></ul>	<p>Lesson Topic: Evaluating Expressions with Decimals Standard Ref: 5.OA.2 Resource/Strategy:</p> <ul style="list-style-type: none"><li>• <a href="https://grade5commoncoremath.wikispaces.hcpss.org/5.OA.2">https://grade5commoncoremath.wikispaces.hcpss.org/5.OA.2</a></li><li>• <a href="https://learnzillion.com/lessonsets/648-write-interpret-describe-and-reason-about-expressions">https://learnzillion.com/lessonsets/648-write-interpret-describe-and-reason-about-expressions</a></li></ul>			