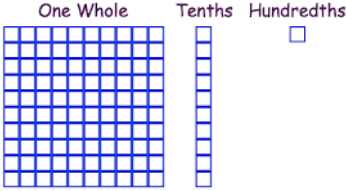
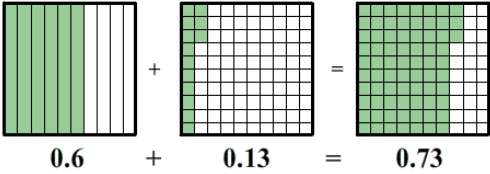
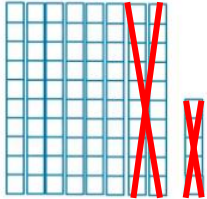
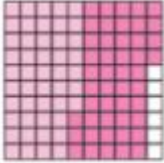
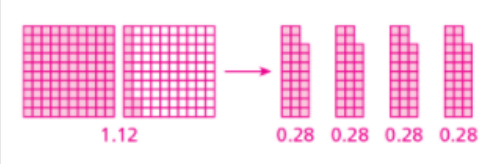
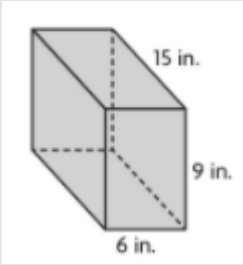


Math: Grade 5

Quarter	Math Understanding	The student can...	Support Information
1	Multiply Multi-Digit Whole Numbers Using Place Value	<p>*explain patterns in the number of zeros of the product when multiplying by powers of ten.</p> <p>*multiply multi-digit numbers using the standard algorithm.</p>	<p>Click HERE to see a video on patterns with exponents.</p> <p>Standard Algorithms are the traditional rules used to multiply.</p> <p>Click HERE for a video on using the standard algorithm for multi-digit multiplication.</p>
1	Divide Multi-Digit Whole Numbers	<p>*divide up to 4-digit numbers by up to 2-digit numbers using the area model.</p> <p>*divide up to 4-digit numbers by up to 2-digit numbers using partial quotients.</p> <p>*divide up to 4-digit numbers by up to 2-digit numbers using the standard algorithm.</p>	<p>Click HERE for a video on how to divide with the area model.</p> <p>Partial quotients for division:</p> <div data-bbox="885 856 1596 1276" style="border: 1px solid black; padding: 10px;"> <p align="center">Partial Quotients Division</p> <div style="display: flex; align-items: center;"> <div style="flex: 1;"> </div> <div style="flex: 1; padding-left: 20px;"> <ol style="list-style-type: none"> 1. Subtract from the dividend an easy multiple of the divisor. (x10, x5, x2...) 2. Repeat the subtraction until the number is less than the divisor. 3: Add up the multipliers of the divisor. <p align="right">367 ÷ 14 = 26 R3</p> </div> </div> </div> <p>Standard Algorithms are the traditional rules used to divide.</p> <p>Click HERE for a video on using the standard algorithm for multi-digit division.</p>

<p>3</p>	<p>Divide with Whole Numbers & Unit Fractions</p>	<p>*interpret a fraction as division of the numerator by the denominator.</p> <p>*divide unit fractions by whole numbers.</p> <p>*divide whole numbers by unit fractions.</p>	<p>Click HERE for a video of division of a numerator by the denominator.</p> <p>Click HERE for a video of dividing unit fractions by whole numbers.</p> <p>Click HERE for a video of dividing whole numbers by unit fractions.</p>						
<p>3</p>	<p>Compare, Round, Add, & Subtract Decimals</p>	<p>*read, write, and compare decimals to the thousandths.</p> <p>*add decimals to the thousandths.</p> <p>*subtract decimals to the thousandths.</p>	<p>Decimals can be modeled with pictures.</p>  <p>One Whole Tenths Hundredths</p> <p>Click HERE for a video on comparing decimals.</p> <p>Adding decimals can be modeled with pictures.</p>  <p>$0.6 + 0.13 = 0.73$</p> <p>Add decimals using the standard algorithm.</p> $0.32 + 12.965 + 1.1$ <table border="1" data-bbox="862 1163 1146 1310"> <tr> <td>Line up the decimal points</td> <td> $\begin{array}{r} 0.320 \\ 12.965 \\ + 1.100 \\ \hline 14.385 \end{array}$ </td> <td>'Pad' with zeros</td> </tr> </table> <p>Subtracting decimals can be modeled with pictures. For example, $0.85 - 0.25 = 0.6$</p>  <p>Subtract decimals using the standard algorithm.</p> $16.34 - 3.18$ <table data-bbox="862 1745 1468 1906"> <tr> <td> $\begin{array}{r} 16.34 \\ - 3.18 \\ \hline \end{array}$ </td> <td>Line up the decimal points... borrow (regroup) if you need to!</td> <td> $\begin{array}{r} 16.\overset{2}{\cancel{3}}4 \\ - 3.18 \\ \hline 13.16 \end{array}$ </td> </tr> </table>	Line up the decimal points	$\begin{array}{r} 0.320 \\ 12.965 \\ + 1.100 \\ \hline 14.385 \end{array}$	'Pad' with zeros	$\begin{array}{r} 16.34 \\ - 3.18 \\ \hline \end{array}$	Line up the decimal points... borrow (regroup) if you need to!	$\begin{array}{r} 16.\overset{2}{\cancel{3}}4 \\ - 3.18 \\ \hline 13.16 \end{array}$
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<p>3</p>	<p>Understand Place Value & Multiplication with Decimals</p>	<p>*explain patterns in the placement of the decimal point when a decimal is multiplied by a power of 10.</p> <p>*multiply decimals and whole number using models.</p> <p>*multiply decimals and whole numbers using the area model.</p> <p>*multiply decimals and whole numbers with a bar model.</p>	<p>Click HERE for a video on multiplying decimals by powers of 10.</p> <p>Multiplication of decimals and whole numbers can be modeled with pictures. For example:</p> <p>$2 \times 0.47 = 0.94$</p>  <p>Click HERE for a video on multiplying decimals and whole numbers using models.</p> <p>Click HERE for a video on using the area model to multiply with decimals.</p> <p>Represent multiplication with a bar model.</p> <p>$3 \times 0.67 =$</p> <table border="1" data-bbox="1021 1079 1424 1150"> <tbody> <tr> <td>0.67</td> <td>0.67</td> <td>0.67</td> </tr> <tr> <td colspan="3" style="text-align: center;">2.01</td> </tr> </tbody> </table>	0.67	0.67	0.67	2.01		
0.67	0.67	0.67							
2.01									
<p>4</p>	<p>Understand Place Value & Division with Decimals</p>	<p>*explain patterns in the placement of the decimal point when a decimal is divided by a power of 10.</p> <p>*divide decimals to the thousandths.</p>	<p>Click HERE for a video on dividing decimals by powers of 10.</p> <p>Division of decimals can be modeled with pictures.</p> <p>$1.12 \div 0.28 = 4$</p>  <p>Click HERE for a video on dividing decimals using the standard algorithm.</p>						

4	Solve Volume Problems	<p>*find the volume of rectangular prisms.</p> <p>*find the volume of composed figures.</p>	<p>Volume is the number of cubic, or three-dimensional, units a solid figure or a liquid takes up.</p> <p>Find the volume using the formula: <i>length x width x height</i></p> <div data-bbox="803 241 1044 504"></div> <p>15 in x 6 in x 9 in = 810 cubic inches</p> <p>Click HERE for a video on finding the volume of composed figures.</p>
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