

Math 6 - Unit 1: Number System Fluency

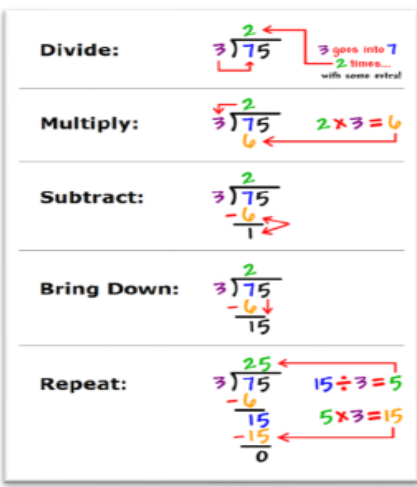
Unit 1 End of Unit Study Guide

Name: _____

Class Period: 1 2 3 4 Date: _____

Long Division

Notes and Examples are on MSG pages _____

<p>Notes:</p> 	<p>1)</p> $8 \overline{) 24}$ <p>Answer: _____</p>
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Adding & Subtracting Decimals

Notes and Examples are on MSG page _____

<p>Notes:</p> <p>The first step to add or subtract decimals is to _____</p> <p>_____</p> <p>Then, add _____ as placeholders at the end (if they don't have the same number of decimal places).</p>	<p>2) $15 + 3.8 =$</p> <p>Answer: _____</p>	<p>3) Subtract: $36.08 - 35.19$</p> <p>Answer: _____</p>
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Multiplying Decimals

Notes and Examples are on MSG page _____

<p>Notes:</p> <p>Ignore the decimals – just multiply the numbers.</p> <p>After multiplying, _____ the number of places behind the decimals in the problem. Your answer will have the same number of places behind the _____.</p>	<p>4) Multiply: $12 \cdot 1.2$</p> <p>Answer: _____</p>	<p>5) Multiply: $15.4 \cdot 0.6$</p> <p>Answer: _____</p>
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Dividing Decimals

Notes and Examples are on MSG page _____

<p>Notes:</p> <p>First, move the decimal in the divisor all the way to the _____ to make it a _____ number.</p> <p>Move the decimal in the dividend the _____ number of places. Add _____ if necessary.</p> <p>Bring the _____ straight up.</p> <p>Divide.</p>	<p>6) Divide: $1.76 \div 0.4$</p> <p>Answer: _____</p>	<p>7)</p> $1.2 \overline{)372}$ <p>Answer: _____</p>
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Dividing Fractions

Notes and Examples are on MSG page _____

<p>Notes:</p> <div style="border: 2px solid black; padding: 5px; text-align: center;"> $3 \div \frac{3}{4}$ <table border="1" style="margin: auto;"> <tr> <th>KEEP</th> <th>CHANGE</th> <th>FLIP</th> </tr> <tr> <td>KEEP the first number the same.</td> <td>CHANGE the division symbol to multiplication.</td> <td>FLIP the second number.</td> </tr> </table> $3 \times \frac{4}{3}$ <p>Then, MULTIPLY as normal.</p> </div>	KEEP	CHANGE	FLIP	KEEP the first number the same.	CHANGE the division symbol to multiplication.	FLIP the second number.	<p>8) $\frac{2}{3} \div \frac{1}{4} =$</p> <p>Answer: _____</p>	<p>9) $1\frac{2}{5} \div \frac{1}{5} =$</p> <p>Answer: _____</p>
KEEP	CHANGE	FLIP						
KEEP the first number the same.	CHANGE the division symbol to multiplication.	FLIP the second number.						

GCF & LCM

Notes and Examples are on MSG pages _____

<p>Notes:</p> <p>A _____ is a number that divides evenly into another number. Example: factors of 10 are 1, 2, 5, & 10</p> <p>A _____ is the product of 2 whole numbers. Example: multiples of 3 are 3, 6, 9, 12...</p> <p>When using the SLED method, the GCF is on the LEFT and LCM is ALL of them.</p>	<p>10) Find the Greatest Common Factor (GCF) of 24 and 72 .</p> <p>Answer: _____</p>	<p>11) Determine the LCM (least common multiple) of 8 and 12.</p> <p>Answer: _____</p>
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11) Blake has \$12 to buy school supplies. If he buys a notebook for \$2.34, a pencil for \$0.32 and a pack of pens for \$5.99, how much money will he have left?

12) Mrs. Katz bought new calculators for the math team at ECMS. Each calculator cost \$4.23. If she bought 12, how much did she spend?

13) Joseph and his friends are hiking a trail that is $9\frac{1}{2}$ miles long. They want to finish the hike in 4 hours. How many miles must they hike per hour?

14) Mrs. Bothers bought cookies for her entire class. Each cookie costs \$0.25. If she spent a total of \$6.75, how many students are in her class?

15) Destiny has 15 feet of ribbon that she wants to cut into pieces. Each piece will be $\frac{1}{3}$ foot long. How many pieces will Destiny have?

Math 6 - Unit 1: Number System Fluency

Name: _____

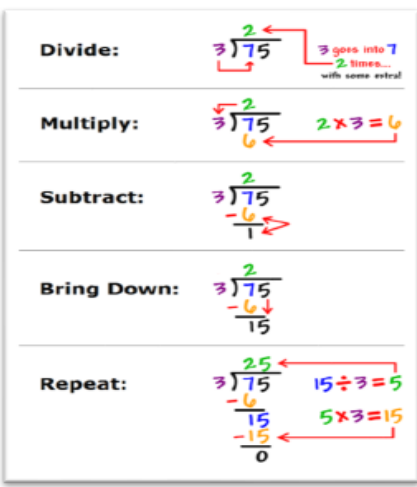
Unit 1 End of Unit Study Guide

ANSWER KEY

Class Period: 1 2 3 4 Date: _____

Long Division

Notes and Examples are on MSG pages _____

<p>Notes:</p> 	<p>1)</p> $8 \overline{) 244}$ <p>Answer: 143</p>
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Adding & Subtracting Decimals

Notes and Examples are on MSG page _____

<p>Notes:</p> <p>The first step to add or subtract decimals is to _____</p> <p>_____</p> <p>Then, add _____ as placeholders at the end (if they don't have the same number of decimal places).</p>	<p>2) $15 + 3.8 =$</p> <p>Answer: 18.8</p>	<p>3) Subtract: $36.08 - 35.19$</p> <p>Answer: 0.89</p>
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Multiplying Decimals

Notes and Examples are on MSG page _____

<p>Notes:</p> <p>Ignore the decimals – just multiply the numbers.</p> <p>After multiplying, _____ the number of places behind the decimals in the problem. Your answer will have the same number of places behind the _____.</p>	<p>4) Multiply: $12 \cdot 1.2$</p> <p>Answer: 14.4</p>	<p>5) Multiply: $15.4 \cdot 0.6$</p> <p>Answer: 9.24</p>
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Dividing Decimals

Notes and Examples are on MSG page _____

<p>Notes:</p> <p>First, move the decimal in the divisor all the way to the _____ to make it a _____ number.</p> <p>Move the decimal in the dividend the _____ number of places. Add _____ if necessary.</p> <p>Bring the _____ straight up.</p> <p>Divide.</p>	<p>6) Divide: $1.76 \div 0.4$</p> <p>Answer: 4.4</p>	<p>7)</p> $1.2 \overline{)372}$ <p>Answer: 310</p>
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Dividing Fractions

Notes and Examples are on MSG page _____

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$3 \div \frac{3}{4}$																	
KEEP	CHANGE	FLIP															
KEEP the first number the same.	CHANGE the division symbol to multiplication.	FLIP the second number.															
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GCF & LCM

Notes and Examples are on MSG pages _____

<p>Notes:</p> <p>A _____ is a number that divides evenly into another number. Example: factors of 10 are 1, 2, 5, & 10</p> <p>A _____ is the product of 2 whole numbers. Example: multiples of 3 are 3, 6, 9, 12...</p> <p>When using the SLED method, the GCF is on the LEFT and LCM is ALL of them.</p>	<p>10) Find the Greatest Common Factor (GCF) of 24 and 72 .</p> <p>Answer: 24</p>	<p>11) Determine the LCM (least common multiple) of 8 and 12.</p> <p>Answer: 24</p>
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11) Blake has \$12 to buy school supplies. If he buys a notebook for \$2.34, a pencil for \$0.32 and a pack of pens for \$5.99, how much money will he have left?

\$3.35

12) Mrs. Katz bought new calculators for the math team at ECMS. Each calculator cost \$4.23. If she bought 12, how much did she spend?

\$50.76

13) Joseph and his friends are hiking a trail that is $9\frac{1}{2}$ miles long. They want to finish the hike in 4 hours. How many miles must they hike per hour?

$\frac{19}{8}$ miles or $2\frac{3}{8}$ miles

14) Mrs. Bothers bought cookies for her entire class. Each cookie costs \$0.25. If she spent a total of \$6.75, how many students are in her class?

27 students

15) Destiny has 15 feet of ribbon that she wants to cut into pieces. Each piece will be $\frac{1}{3}$ foot long. How many pieces will Destiny have?

45 pieces