

6th Grade Test ~ Quarter 2~ PRACTICE GUIDE

- ☑ For each topic, **review** my NOTES, HANDOUTS, HOMEWORK, and TESTS/QUIZZES.
- ☑ **Practice** problems from my math book and online practice sites or create new ones!
Check out the “Extra Practice” and “Skills Review” sections in the back of my book.
- ☑ Find a study buddy! Rewrite notes, create flash cards, play games ... practice, practice, practice!

When I practice, I will use the lists below to show that I know how to:

<p><u>Vocabulary</u> – Review and use it!</p> <ul style="list-style-type: none"> <input type="checkbox"/> <i>Sum, Difference, Product, Quotient</i> <input type="checkbox"/> <i>Evaluate</i> <input type="checkbox"/> <i>Decimal</i> <input type="checkbox"/> <i>Place value</i> <input type="checkbox"/> <i>Decimal point</i> <input type="checkbox"/> <i>Prime, Composite</i> <input type="checkbox"/> <i>Prime Factorization</i> <input type="checkbox"/> <i>Greatest Common Factor (GCF), Least Common Multiple (LCM)</i> <input type="checkbox"/> <i>Simplest Form (also Reduce, Lowest term)</i> <input type="checkbox"/> <i>Reciprocal</i> <input type="checkbox"/> <i>Improper fraction, proper fraction, mixed numbers, equivalent fractions</i> <input type="checkbox"/> <i>(Product as a) Power, Exponential Notation, Exponent</i> <input type="checkbox"/> <i>Integer</i> <input type="checkbox"/> <i>Opposite</i> <input type="checkbox"/> <i>Ratio</i> <input type="checkbox"/> <i>Unit rate</i> 	<p><u>Exponents</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Use exponential notation to write a value (as a power) <input type="checkbox"/> Evaluate (find the value of) an expression that is in exponential notation <hr/> <p><u>Operations</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Add, Subtract, Multiply, and Divide whole numbers <input type="checkbox"/> Apply Order of Operations to evaluate an expression that includes multiple operations <hr/> <p><u>Percent</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Find the percent of a number <input type="checkbox"/> Convert between fractions, decimals and percent
<p><u>Factors and Multiples</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> List all the factors of a number <input type="checkbox"/> Find GCF of two or more numbers <input type="checkbox"/> Find LCM of two or more numbers <p>Solve real-life problems using GCF and LCM</p> <p><u>Prime Factorization</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Find the prime factorization for a target number <input type="checkbox"/> Find the target number for a given prime factorization 	<p><u>Fractions</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Change between mixed and improper forms <input type="checkbox"/> Compare and order fractions <input type="checkbox"/> Solve real-life problems using fractions <input type="checkbox"/> Find equivalent fractions <input type="checkbox"/> Simplify fractions <input type="checkbox"/> Add, subtract, multiply, and divide fractions <input type="checkbox"/> Write ratio <input type="checkbox"/> Write a rate and find the unit rate <input type="checkbox"/> Complete the ratio table and graph
<p><u>Decimals</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Understand place value <input type="checkbox"/> Add and subtract decimals <input type="checkbox"/> Multiply and divide decimals <input type="checkbox"/> Solve real-life problems using decimal operations <input type="checkbox"/> Round a number to a given place value 	<p><u>Algebra</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Compare, order, find and position integers using the number line <input type="checkbox"/> Understand the meaning of absolute value and opposite <input type="checkbox"/> Examples of integers in real-world situations

<p>1) Find the sum.</p> $389 + 7,046$	<p>2) Find the difference.</p> $9,020 - 467$	<p>3) Find the product.</p> $23 * 652$	<p>4) Find the quotient. Round to the nearest hundredth.</p> $361 / 6$
<p>5) Order from least to greatest.</p> $0.29, 0.336, 0.283, 0.3$		<p>6) Order from greatest to least.</p> $45.03, 40.23, 45.12, 45.3$	
<p>7) Use >, <, or = to complete each statement.</p> $6.6 \text{ ____ } 6.45 \qquad 9.7 \text{ ____ } 9.700$		<p>8) Evaluate.</p> $\text{______} = 5^4 \qquad \text{______} = 6^2$	
<p>9) Find the sum.</p> $9.34 + 2.8$	<p>10) Find the difference.</p> $9.17 - 1.033$	<p>11) Find the product.</p> $7.62 \bullet 1.6$	<p>12) Find the quotient.</p> $1.83 / 25$

<p>13a) $7.55 \div .05$ 13b) $928 \div 0.4$</p>	<p>14) Find the GCF of the following numbers.</p> <p style="text-align: center;">16, 36</p>
<p>15) Solve.</p> <p style="text-align: center;">Which is greater 2^4 or 4^2? Explain.</p>	<p>16) Write the prime factorization for the following.</p> <p style="text-align: center;">90</p>
<p>17) Are these Proportionate?</p> <p style="text-align: center;">$\frac{2}{7} = \frac{10}{14}$ _____</p> <p style="text-align: center;">$\frac{2}{6} = \frac{63}{81}$ _____</p>	<p>18) Write the improper fraction as a mixed number.</p> <p style="text-align: center;">$\frac{38}{14} =$</p> <p style="text-align: center;">$\frac{54}{10} =$</p>
<p>19) Simplify the following fractions. =</p> <p style="text-align: center;">$\frac{72}{96} =$ $\frac{21}{27} =$</p>	<p>20) Write the mixed number as an improper fraction.</p> <p style="text-align: center;">$4\frac{3}{12} =$</p>
<p>21) Mr. Cameron attends the sixth grade lunch every 6 days. He attends the eighth grade lunch every 15 days. If he attended both the sixth and eighth grade lunches today, how many days from now will he next attend both lunches on the <u>same</u> day?</p>	<p>22) Order the values from least to greatest.</p> <p style="text-align: center;">$\frac{7}{9}, \frac{5}{6}, \frac{13}{18}$</p>
<p>23) Use $>$, $<$, or $=$ to complete each statement.</p> <p style="text-align: center;">$\frac{5}{4}$ _____ $\frac{8}{7}$</p>	<p>24) Order the values from greatest to least.</p> <p style="text-align: center;">0.05 15% $\frac{1}{7}$</p>

<p>25) Find the sum.</p> $\frac{1}{5} + 3\frac{3}{4}$	<p>26) Find the difference.</p> $5\frac{5}{8} - \frac{1}{2}$	<p>27) Find the product.</p> $1\frac{2}{7} \text{ of } \frac{4}{6}$	<p>28) Find the quotients.</p> <p>(A) $\frac{4}{8} \div \frac{2}{6}$</p> <p>B) $\frac{2}{3} \div 3$</p>
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Complete the table with equivalent values.

	As a Fraction (Answer in simplest form.)	As a Decimal Round to the nearest hundredth.	As a Percent Round to the nearest whole %.
29)	$\frac{1}{5}$		
30)		0.48	
31)			65%
32)	$\frac{2}{3}$		
33)			3%
34)		0.7	
35)		3.25	

36) Use $>$, $<$, or $=$ to complete each statement.

(A) 0.16 _____ $\frac{1}{8}$

(B) 51% _____ $\frac{11}{25}$


37) Sixty students out of 300 students participated in the school play. What percent of students participated in the school play?

<p>38) Evaluate.</p> <p>25% of 70</p>	<p>39) Evaluate.</p> <p>30% of 66</p>	<p>40) Solve</p> <p>80 % of what number is 48?</p>
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<p>41) Write a positive or negative integer for each situation.</p> <p>a) A sky diver descends 100 feet</p> <p>_____</p> <p>b) A \$100 ATM withdrawal</p> <p>_____</p> <p>c) Going to the 12th floor on an elevator</p> <p>_____</p> <p>d) Sixteen degrees above zero</p> <p>_____</p>	<p>42) Solve.</p> <p>$6 + 4 \times 5 =$</p>	<p>43) Solve.</p> <p>$100 - 5(4 + 2^3) =$</p>
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<p>44) Compare using >, <, =.</p> <p>-7 _____ 6</p>	<p>45) Compare using >, <, =.</p> <p>-4 _____ -9</p>	<p>46) Order the following from least to greatest:</p> <p>-6, 5, 3, -8, 7</p>
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47) Solve for the distance between point A and point B.



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<p>48) Explain or describe what <u>relatively prime</u> means and give an example.</p>	<p>49) Explain or describe what <u>absolute value</u> means and give an example.</p>
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50) Mark $-3 \frac{3}{4}$ on the number line.

