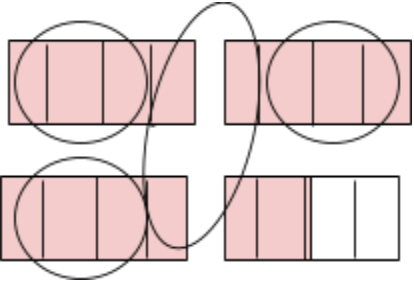
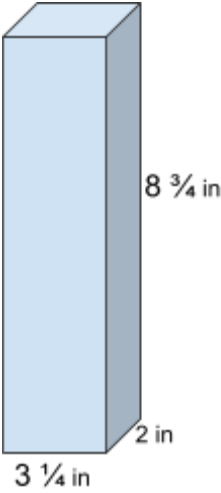


Math 6 Unit 4  
Dividing Fractions  
Additional Practice Problems KEY

<p>1.Find the prime factorization of 48</p> <p><math>2 \times 2 \times 2 \times 2 \times 3</math></p>	<p>2.This is the prime factorization for what number : <math>3 \times 3 \times 2 \times 7 \times 5</math></p> <p>630</p>
<p><b>Read questions 3 &amp; 4 below carefully and decide if it represents a GCF or LCM question. Then answer carefully.</b></p>	
<p>3.At the grand opening of the movie theater prizes were handed out to the first 100 customers. Every 8th customer received a coupon for free popcorn and every 12th customer received a coupon for a free box of candy. How many customers will receive both coupons?</p> <p>customer #24,#48,#72,# 96</p> <p>4 customer total</p>	<p>4. In a parade the different instruments will be grouped and march in line with each other. All the rows must have the same number of students. There are 24 wind instruments, and 36 percussion instruments. What is the greatest number of students who can be in each row?</p> <p>12 students in each row</p>
<p>5. The GCF of two numbers is 3 The LCM of two numbers is <math>3 \times 8 \times 5</math> One number is 15, what is the other number?</p> <p>24</p>	<p>6a. Diego completed <math>\frac{1}{2}</math> of his hw, Lin completed <math>\frac{3}{5}</math> of her hw, and Jada has completed <math>\frac{7}{10}</math> of her hw. How much hw was completed all together?</p> <p><math>1\frac{4}{5}</math> ( out of 3 assignments )</p> <p>6b. How much hw is still left to complete for the 3 students.</p>

Math 6 Unit 4  
Dividing Fractions  
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	$3 - 1\frac{4}{5} = 1\frac{1}{5}$
<p>7. Model <math>3\frac{1}{2} \div \frac{3}{4}</math></p>  <p>4 full groups with 2 pieces left over= <math>4\frac{2}{3}</math></p>	<p>8. <math>\frac{3}{8}x = \frac{15}{16}</math></p> $\frac{120}{48} = 2\frac{24}{48} = 2\frac{1}{2}$
<p>9. A recipe requires <math>\frac{1}{4}</math> cups of milk. Marianna has <math>1\frac{2}{3}</math> cups of milk and would like to use as much as she can. How many times can she make this recipe?</p> <p><math>6\frac{2}{3}</math> times or 6 full copies of the recipe</p>	<p>10. How many <math>\frac{1}{4}</math> inch cubes can fit inside this box:</p>  <p>3640 cubes</p>
<p>11. Find the prime factorization of 60</p> <p>a.) <math>12 \times 5</math></p>	<p>12. Find the GCF of 24 and 36</p> <p>a.) 8</p>

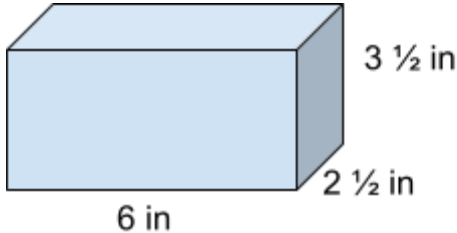
Math 6 Unit 4  
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<p>b.) <math>2 \times 3 \times 5</math>  c.) <math>2 \times 3 \times 5 \times 5</math>  <b>d.) <math>2 \times 2 \times 3 \times 5</math></b></p>	<p><b>b.) 12</b>  c.) 4  d.) 9</p>
<p>13. The GCF of two numbers is <math>2 \times 2</math>. The LCM of the same two numbers is <math>2 \times 2 \times 5 \times 8</math>. One number is 32, what is the other number?</p> <p>a.) 10  <b>b.) 20</b>  c.) 80  d.) 16</p>	<p>14. Lin has 56 roses and 48 lilies. She wants to make flower bouquets that have the exact same number of roses and lilies. What is the greatest amount of bouquets can she make?</p> <p><b>a.) 8</b>  b.) 6  c.) 7  d.) 2</p>
<p>15. The Christmas lights on the tree and the lights on the porch blink at a consistent rate. The tree lights blink every 4 seconds which the porch lights blink every 6 seconds. After how many seconds will they blink together?</p> <p>a.) 15</p>	<p>16.) <math>2(1\frac{1}{5} + 4\frac{2}{10} - 3\frac{1}{5})</math></p>

Math 6 Unit 4  
Dividing Fractions  
Additional Practice Problems KEY

b.) 20 <b>c.) 12</b> d.) 32	a.) $2\frac{3}{10}$ b.) $4\frac{3}{5}$ c.) $16\frac{4}{20}$ <b>d.) <math>4\frac{2}{5}</math></b>
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17.) $4\frac{1}{5} \div 3$     a.) $12\frac{3}{5}$ b.) $1\frac{2}{5}$ <b>c.) <math>1\frac{6}{15}</math></b> d.) $\frac{2}{3}$	18.) $2\frac{3}{10} \div \frac{2}{5}$     <b>a.) <math>5\frac{3}{4}</math></b> b.) $\frac{23}{25}$ c.) $\frac{4}{23}$ d.) $2\frac{3}{4}$
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19. How many $\frac{1}{2}$ inch cubes can fit inside this prism? 	20. George has filled a 20" x 8" x 10" rectangular flower pot $\frac{3}{5}$ full of soil in preparation for planting. How many cubic inches of soil was used?
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Math 6 Unit 4  
Dividing Fractions  
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a.) 24 cubes b.) 36 cubes c.) 840 cubes <b>d.) 420 cubes</b>	a.) $1600 \text{ in}^3$ <b>b.) <math>960 \text{ in}^3</math></b> c.) $345.6 \text{ in}^3$ d.) $320 \text{ in}^3$
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