RISING 6TH GRADE SUMMER MATH HOMEWORK

NAME: __________________
Find the quotient.

- \( 972 \div 9 = \)
- \( 2,737 \div 8 = \)
- \( 0.5622 \div 0.006 = \)
- \( \frac{2}{5} \div 5 = \)

Simplify the expressions.

- \( 5^2 (6 - 2) + 1 = \)
- \( 5^2 + (6 - 2) + 1 = \)
- \( 5 \cdot 2(6 - 2) + 1 = \)

Order the numbers in descending order.

- \( \frac{3}{10}, \frac{33}{1,000}, 0.03, 0.33 \)

Find the product.

- \( \frac{1}{2} \times \frac{4}{5} = \)
- \( (0.008)(80,000) = \)
- \( (0.09)(4,000) = \)
- \( 6 \cdot 6 = \)

Find the difference.

- \( 5,323 - 21 = \)
- \( \frac{4}{13} - \frac{2}{13} = \)
- \( 6.3 - 3.019 - 0.002 = \)
- \( 8 - 0.03 = \)

Simplify the fractions.

- \( \frac{6}{30} = \)
- \( \frac{3}{12} = \)
- \( \frac{5}{10} = \)
- \( \frac{9}{45} = \)
Find the sum.

\[ 5,323 + 21 = \]
\[ 4 \frac{2}{13} + 2 \frac{1}{13} = \]
\[ 6.3 + 3.019 + 0.002 = \]
\[ 8 + 0.03 = \]

Rewrite the improper fraction as a mixed number. Simplify.

\[ \frac{16}{5} = \]
\[ \frac{29}{12} = \]

Rewrite the mixed number as an improper fraction.

\[ 2 \frac{1}{2} = \frac{3}{15} = \]
\[ 9 \frac{3}{8} = \frac{5}{11} = \frac{12}{\phantom{12}} \]

Find the Least Common Multiple.

\[ 2 \text{ and } 3 \]
\[ 12 \text{ and } 30 \]
\[ 3 \text{ and } 8 \]
\[ 6 \text{ and } 21 \]

Find the Greatest Common Factor.

\[ 2 \text{ and } 3 \]
\[ 12 \text{ and } 30 \]
\[ 3 \text{ and } 8 \]
\[ 6 \text{ and } 21 \]

Fraction Operations. Simplify.

\[ 2 \frac{2}{12} + 4 \frac{7}{30} = \]
\[ 5 \frac{1}{3} - 1 \frac{7}{8} = \]
Place two subtraction signs between these digits to give the correct difference.

\[
\begin{array}{cccc}
3 & 8 & 7 & 9 \\
\hline
\end{array}
\]

Fill in the missing symbol (<, >, or =).

\[
\begin{array}{ccc}
2 & \square & 4 \\
\hline
3 & 5
\end{array}
\]

Fill in the missing numbers.

\[
\begin{array}{cccc}
\square & 2 & 6 & \square \\
\hline
\end{array}
\]

\[
\begin{array}{ccc}
1 & \square & \square & 4 \\
\hline
3 & 1 & 5 & 8
\end{array}
\]

Classify and describe the attributes of this triangle. Assume the figure is drawn to scale.
<table>
<thead>
<tr>
<th><strong>M&amp;Ms (Making Math Stick)</strong></th>
<th><strong>M&amp;Ms (Making Math Stick)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rising 6th Grade: Week 2</strong></td>
<td><strong>Rising 6th Grade: Week 2</strong></td>
</tr>
<tr>
<td><strong>Find the quotient.</strong></td>
<td><strong>Simplify the expressions.</strong></td>
</tr>
<tr>
<td>600 ÷ 30 =</td>
<td>7 + (11 − 3) ⋅ 5 =</td>
</tr>
<tr>
<td>9,189 ÷ 9 =</td>
<td>8 + 4(6 − 2) =</td>
</tr>
<tr>
<td>10.42 ÷ 0.2 =</td>
<td>(10 − 3) + 5 ⋅ 4 =</td>
</tr>
<tr>
<td>1/2 ÷ 6 =</td>
<td></td>
</tr>
<tr>
<td><strong>Order the numbers in ascending order.</strong></td>
<td><strong>Find the product.</strong></td>
</tr>
<tr>
<td>12/20, 123/250, 0.123, 0.06</td>
<td>3/25 ⋅ 5/7 =</td>
</tr>
<tr>
<td></td>
<td>(0.002)(2,000) =</td>
</tr>
<tr>
<td></td>
<td>(0.09)(500,000) =</td>
</tr>
<tr>
<td></td>
<td>7 ⋅ 7 =</td>
</tr>
<tr>
<td><strong>Find the difference.</strong></td>
<td><strong>Simplify the fractions.</strong></td>
</tr>
<tr>
<td>9,256 − 68 =</td>
<td>7/49 =</td>
</tr>
<tr>
<td>5/19 − 4/19 =</td>
<td>8/56 =</td>
</tr>
<tr>
<td>7.4 − 3.41 − 0.009 =</td>
<td>25/50 =</td>
</tr>
<tr>
<td>13 − 0.124 =</td>
<td>20/80 =</td>
</tr>
</tbody>
</table>
### M&Ms (Making Math Stick)

#### Rising 6th Grade: Week 2

<table>
<thead>
<tr>
<th><strong>m</strong> Find the sum.</th>
<th><strong>m</strong> Rewrite the improper fraction as a mixed number. Simplify.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9,256 + 68 =</td>
<td>9</td>
</tr>
<tr>
<td>5 ( \frac{4}{19} ) =</td>
<td>( \frac{65}{9} )</td>
</tr>
<tr>
<td>7.4 + 3.41 + 0.009 =</td>
<td>( \frac{20}{9} )</td>
</tr>
<tr>
<td>13 + 0.124 =</td>
<td>( \frac{27}{8} )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>m</strong> Rewrite the mixed number as an improper fraction.</th>
<th><strong>m</strong> Find the Least Common Multiple.</th>
</tr>
</thead>
<tbody>
<tr>
<td>( 1 \frac{2}{3} ) =</td>
<td>3 and 4</td>
</tr>
<tr>
<td>( 9 \frac{7}{10} ) =</td>
<td>13 and 39</td>
</tr>
<tr>
<td>( 3 \frac{5}{9} ) =</td>
<td>4 and 10</td>
</tr>
<tr>
<td>( 8 \frac{9}{10} ) =</td>
<td>7 and 8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>m</strong> Find the Greatest Common Factor.</th>
<th><strong>m</strong> Fraction Operations. Simplify.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 and 4</td>
<td>( 1 \frac{1}{13} + 3 \frac{10}{39} = )</td>
</tr>
<tr>
<td>13 and 39</td>
<td>( 3 \frac{1}{4} - \frac{9}{10} = )</td>
</tr>
<tr>
<td>4 and 10</td>
<td></td>
</tr>
<tr>
<td>7 and 8</td>
<td></td>
</tr>
</tbody>
</table>
The division sign is missing. Between which two numbers does it belong?

\[ 3 \quad 0 \quad 7 \quad 5 \quad 2 \quad 5 = 123 \]

Fill in the missing symbol (<, >, or =).

\[ \frac{1}{2} \quad \square \quad \frac{3}{5} \]

Fill in the missing numbers.

\[ \square \quad 6 \quad 3 \quad \square \]

\[ + \quad 3 \quad \square \quad 4 \quad 9 \]

\[ 5 \quad 7 \quad 8 \quad 6 \]

Draw.

Two Parallel Lines:

Two Perpendicular Lines:
### M&Ms (Making Math Stick)

#### Rising 6th Grade: Week 3

<table>
<thead>
<tr>
<th>Find the quotient.</th>
<th>Simplify the expressions.</th>
</tr>
</thead>
<tbody>
<tr>
<td>$425 \div 5 =$</td>
<td>$72 \div 9 \times (9 - 5) =$</td>
</tr>
<tr>
<td>$2,824 \div 4 =$</td>
<td>$20 + 30 \div (1 + 9) =$</td>
</tr>
<tr>
<td>$18.24 \div 0.006 =$</td>
<td>$(23 - 13) \div 2 + 3 =$</td>
</tr>
<tr>
<td>$3 \div \frac{1}{6} =$</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order the numbers in descending order.</th>
<th>Find the product.</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\frac{47}{50}$, $\frac{18}{200}$, 0.9, 0.009</td>
<td>$\frac{2 \times 3}{9 \times 4} =$</td>
</tr>
<tr>
<td></td>
<td>$(0.8)(6,000) =$</td>
</tr>
<tr>
<td></td>
<td>$(0.00006)(4,000) =$</td>
</tr>
<tr>
<td></td>
<td>$8 \cdot 8 =$</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Find the difference.</th>
<th>Simplify the fractions.</th>
</tr>
</thead>
<tbody>
<tr>
<td>$2,391 - 99 =$</td>
<td>$\frac{11}{22} =$</td>
</tr>
<tr>
<td>$7 \frac{7}{15} - \frac{7}{15} =$</td>
<td>$\frac{13}{39} =$</td>
</tr>
<tr>
<td>$3.8 - 1.02 - 0.109 =$</td>
<td>$\frac{15}{60} =$</td>
</tr>
<tr>
<td>$17 - 0.138 =$</td>
<td>$\frac{11}{99} =$</td>
</tr>
</tbody>
</table>
**M&Ms (Making Math Stick)**

Rising 6th Grade: Week 3

<table>
<thead>
<tr>
<th>Find the sum.</th>
<th>Rewrite the improper fraction as a mixed number. Simplify.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,391 + 99 =</td>
<td>23/10 = ( \frac{25}{8} ) =</td>
</tr>
<tr>
<td>7/15 + 7/15 =</td>
<td>47/11 = ( \frac{53}{12} ) =</td>
</tr>
<tr>
<td>3.8 + 1.02 + 0.109 =</td>
<td></td>
</tr>
<tr>
<td>17 + 0.138 =</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rewrite the mixed number as an improper fraction.</th>
<th>Find the Least Common Multiple.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 3/5 = 19/5 = 1 9/17 =</td>
<td>4 and 5</td>
</tr>
<tr>
<td>7 6/7 = 51/7 = 3 2/21 =</td>
<td>9 and 15</td>
</tr>
<tr>
<td></td>
<td>8 and 12</td>
</tr>
<tr>
<td></td>
<td>5 and 35</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Find the Greatest Common Factor.</th>
<th>Fraction Operations. Simplify.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 and 5</td>
<td>2 5/9 + 5 4/15 =</td>
</tr>
<tr>
<td>9 and 15</td>
<td>3 3/8 - 11/12 =</td>
</tr>
</tbody>
</table>
Determine the operation needed to make the equation true. Choose from addition, subtraction, multiplication, and division.

\[ 15 \quad \square \quad 11 \quad \square \quad 3 = 7 \]

Fill in the missing symbol (<, >, or =).

\[ \frac{1}{2} \quad \square \quad \frac{8}{17} \]

Fill in the missing numbers.

\[ 6 \quad \square \quad 7 \]

\[ + \quad 1 \quad 3 \]

\[ 1 \quad 0 \quad 3 \]

What is the volume of this cube?
Find the quotient.

\[ 600 \div 50 = \]
\[ 6,328 \div 7 = \]
\[ 0.72 \div 0.008 = \]
\[ \frac{2}{15} \div \frac{4}{7} = \]

Order the numbers in ascending order.

\[ \frac{3}{4}, \quad 3, \quad 0.4, \quad 0.05 \]

Find the product.

\[ \frac{4}{5} \times \frac{4}{5} = \]
\[ (11)(20,000) = \]
\[ (0.9)(9,000) = \]
\[ 17 \cdot 17 = \]

Find the difference.

\[ 4,392 - 53 = \]
\[ \frac{19}{45} - \frac{14}{45} = \]
\[ 98.67 - 5.12 - 0.003 = \]
\[ 93.7 - 34.43 = \]

Simplify the expressions.

\[ 19 - 10 + 14 \times 12 = \]
\[ 18 - 2 + 20 \div 2 = \]
\[ 9 \div 3 \cdot 18 + 15 = \]

Find the product.

\[ \frac{16}{24} = \]
\[ \frac{20}{48} = \]
\[ \frac{25}{35} = \]
\[ \frac{32}{64} = \]
<table>
<thead>
<tr>
<th>Find the sum.</th>
<th>Rewrite the improper fraction as a mixed number. Simplify.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,392 + 53 =</td>
<td>$\frac{9}{5} = \frac{19}{4}$ =</td>
</tr>
<tr>
<td>$19 + \frac{14}{45}$ =</td>
<td>$\frac{37}{6} = \frac{75}{8}$ =</td>
</tr>
<tr>
<td>98.67 + 5.12 + 0.003 =</td>
<td></td>
</tr>
<tr>
<td>93.7 + 34.43 =</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rewrite the mixed number as an improper fraction.</th>
<th>Find the Least Common Multiple.</th>
</tr>
</thead>
<tbody>
<tr>
<td>$7 \frac{7}{12} = 2 \frac{2}{3}$ =</td>
<td>6 and 10</td>
</tr>
<tr>
<td>$4 \frac{5}{9} = 7 \frac{3}{8}$ =</td>
<td>2 and 13</td>
</tr>
<tr>
<td></td>
<td>22 and 88</td>
</tr>
<tr>
<td></td>
<td>20 and 50</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Find the Greatest Common Factor.</th>
<th>Fraction Operations. Simplify.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 and 10</td>
<td>$2 \frac{1}{6} + 3 \frac{3}{10}$ =</td>
</tr>
<tr>
<td>2 and 13</td>
<td></td>
</tr>
<tr>
<td>22 and 88</td>
<td></td>
</tr>
<tr>
<td>20 and 50</td>
<td>$4 \frac{1}{2} - 1 \frac{3}{13}$ =</td>
</tr>
</tbody>
</table>
Determine the operation needed to make the equation true. Choose from addition, subtraction, multiplication, and division.

\[
22 \ [\_\_\_] 22 \ [\_\_\_] 4 = 4
\]

Fill in the missing symbol (\(<\), \(>\), or \(=\)).

\[
\frac{5}{6} \ [\_\_\_] \frac{6}{8}
\]

Fill in the missing numbers.

\[
\ [\_\_\_] \ [\_\_\_] \ [\_\_\_]
\]

\[
-\quad 7 \quad 2 \quad 6
\]

\[
1 \quad 8 \quad 2
\]

What is the maximum area of a rectangle with whole number side lengths and a perimeter of 20 cm?
### M&Ms (Making Math Stick)

#### Rising 6th Grade: Week 5

<table>
<thead>
<tr>
<th><strong>Find the quotient.</strong></th>
<th><strong>Simplify the expressions.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>8,700 ÷ 10 =</td>
<td>64 ÷ 4² × 2 =</td>
</tr>
<tr>
<td>32,790 ÷ 9 =</td>
<td>64 ÷ (12 − 4) ÷ 2 =</td>
</tr>
<tr>
<td>0.024 ÷ 6 =</td>
<td>(12 + 4) ⋅ 4 − 4 =</td>
</tr>
<tr>
<td>5 ÷ 1</td>
<td></td>
</tr>
<tr>
<td>9 ÷ 3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Order the numbers in descending order.</strong></th>
<th><strong>Find the product.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>7/10, 37/50, 0.07, 0.074</td>
<td>5/22 × 11/30 =</td>
</tr>
<tr>
<td></td>
<td>(0.0007)(700) =</td>
</tr>
<tr>
<td></td>
<td>(0.06)(50) =</td>
</tr>
<tr>
<td></td>
<td>11 ⋅ 11 =</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Find the difference.</strong></th>
<th><strong>Simplify the fractions.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>9,230 − 62 =</td>
<td>21/45 =</td>
</tr>
<tr>
<td>17/27 − 11/27 =</td>
<td>15/18 =</td>
</tr>
<tr>
<td>5.4 − 0.54 − 0.054 =</td>
<td>18/20 =</td>
</tr>
<tr>
<td>20.01 − 0.308 =</td>
<td>12/24 =</td>
</tr>
</tbody>
</table>
### Rising 6th Grade: Week 5

<table>
<thead>
<tr>
<th><strong>m</strong> Find the sum.</th>
<th><strong>m</strong> Rewrite the improper fraction as a mixed number. Simplify.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9,230 + 62 =</td>
<td>65/11 = 24/11 =</td>
</tr>
<tr>
<td>17/27 + 11/27 =</td>
<td>15/8 = 52/17 =</td>
</tr>
<tr>
<td>5.4 + 0.54 + 0.054 =</td>
<td></td>
</tr>
<tr>
<td>20.01 + 0.308 =</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>m</strong> Rewrite the mixed number as an improper fraction.</th>
<th><strong>m</strong> Find the Least Common Multiple.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 5/7 = 5/7 =</td>
<td>4 and 14</td>
</tr>
<tr>
<td>3 4/7 = 4/7 =</td>
<td>12 and 9</td>
</tr>
<tr>
<td>7 7/13 = 7/13 =</td>
<td>21 and 49</td>
</tr>
<tr>
<td></td>
<td>6 and 20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>m</strong> Find the Greatest Common Factor.</th>
<th><strong>m</strong> Fraction Operations. Simplify.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 and 14</td>
<td>1 1/6 + 3 11/20 =</td>
</tr>
<tr>
<td>12 and 9</td>
<td>4 5/12 − 1 7/9 =</td>
</tr>
<tr>
<td>21 and 49</td>
<td></td>
</tr>
<tr>
<td>6 and 20</td>
<td></td>
</tr>
</tbody>
</table>
Fill in the missing symbol (<, >, or =).

\[
\frac{2}{3} \quad \square \quad \frac{8}{12}
\]

Determine the operation needed to make the equation true. Choose from addition, subtraction, multiplication, and division.

\[
16 \quad \square \quad 40 \quad \square \quad 16 = 40
\]

Fill in the missing numbers.

\[
\begin{array}{c}
8.00 \\
- 4.\square \square \\
\hline \\
3.82
\end{array}
\]

Do the square and the rectangle have the same perimeter?
Find the quotient.

| 300 ÷ 20 = | (30 − 5) ÷ 5 + 25 = |
| 3,184 ÷ 2 = | 6 + 54 ÷ (15 − 9) = |
| 164 ÷ 0.8 = | 4 · (5 + 7) ÷ 6 = |
| \( \frac{1}{7} ÷ \frac{4}{9} = \) | |

Order the numbers in ascending order.

| \( \frac{3}{4}, \frac{7}{8} \), 0.085, 0.850 | \( \frac{4}{9} \times \frac{21}{30} = \) |
| | (0.005)(80) = |
| | (0.7)(200) = |
| | 20 · 2 = |

Find the difference.

| 9,253 − 58 = | 20 \( \div 32 = \) |
| \( \overline{9} − \frac{7}{24} = \) | \( \overline{20} = \) |
| 2.1 − 0.021 − 0.21 = | 25 \( \div 35 = \) |
| 18 − 0.04 = | \( \overline{9} \div \overline{24} = \) |
### M&Ms (Making Math Stick)

#### Rising 6th Grade: Week 6

<table>
<thead>
<tr>
<th><strong>Find the sum.</strong></th>
<th><strong>Rewrite the improper fraction as a mixed number. Simplify.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>9,253 + 58 =</td>
<td>23 (\frac{20}{20}) = 61 (\frac{15}{15}) =</td>
</tr>
<tr>
<td>(\frac{9}{24} + \frac{7}{24}) =</td>
<td>24 (\frac{7}{7}) = 57 (\frac{10}{10}) =</td>
</tr>
<tr>
<td>2.1 + 0.021 + 0.21 =</td>
<td></td>
</tr>
<tr>
<td>18 + 0.04 =</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Rewrite the mixed number as an improper fraction.</strong></th>
<th><strong>Find the Least Common Multiple.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>(10\frac{5}{6}) = (\frac{65}{6}) =</td>
<td>50 and 75</td>
</tr>
<tr>
<td>(9\frac{11}{30}) = (\frac{281}{30}) =</td>
<td>40 and 60</td>
</tr>
<tr>
<td>(8\frac{1}{3}) = (\frac{25}{3}) =</td>
<td>24 and 36</td>
</tr>
<tr>
<td>(\frac{7}{12}) = (\frac{7}{12}) =</td>
<td>24 and 56</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Find the Greatest Common Factor.</strong></th>
<th><strong>Fraction Operations. Simplify.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>50 and 75</td>
<td>(2\frac{1}{50} + 5\frac{8}{75}) =</td>
</tr>
<tr>
<td>40 and 60</td>
<td>2 (\frac{19}{24} - \frac{7}{36}) =</td>
</tr>
<tr>
<td>24 and 36</td>
<td></td>
</tr>
<tr>
<td>24 and 56</td>
<td></td>
</tr>
</tbody>
</table>
Determine the operation needed to make the equation true. Choose from addition, subtraction, multiplication, and division.

10 [ ] 5 [ ] 2 = 100

Fill in the missing symbol (<, >, or =).

\[
\frac{5}{11} \quad [ ] \quad \frac{3}{10}
\]

Fill in the missing numbers.

\[
1.06 + \quad [ ] \quad [ ] \\
\underline{\quad 2.03}
\]

Find the area. Include the correct unit.

\[
\frac{1}{2} \text{ ft} \times \frac{1}{2} \text{ ft}
\]
<table>
<thead>
<tr>
<th>Find the quotient.</th>
<th>Simplify the expressions.</th>
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</thead>
<tbody>
<tr>
<td>(425 \div 25 =)</td>
<td>(65 - 5 \cdot (4 + 8) =)</td>
</tr>
<tr>
<td>(7,042 \div 7 =)</td>
<td>(88 \div (5 + 3) - 3 =)</td>
</tr>
<tr>
<td>(18.18 \div 6 =)</td>
<td>(10 + (15 - 3)2 =)</td>
</tr>
<tr>
<td>(11 \div 15 = \frac{11}{45} =)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order the numbers in descending order.</th>
<th>Find the product.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(\frac{3}{10}, \frac{33}{125}, 0.2, 0.265)</td>
<td>(\frac{3}{7} \times \frac{14}{27} =)</td>
</tr>
<tr>
<td></td>
<td>((0.07)(11,000) =)</td>
</tr>
<tr>
<td></td>
<td>((0.05)(900) =)</td>
</tr>
<tr>
<td></td>
<td>(16 \cdot 16 =)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Find the difference.</th>
<th>Simplify the fractions.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(5,341 - 20 =)</td>
<td>(\frac{16}{18} = \frac{30}{55} =)</td>
</tr>
<tr>
<td>(16 \div 45 - \frac{1}{45} =)</td>
<td></td>
</tr>
<tr>
<td>(5.6 - 0.45 - 0.045 =)</td>
<td>(\frac{120}{132} = \frac{22}{26} =)</td>
</tr>
<tr>
<td>(19 - 0.28 =)</td>
<td></td>
</tr>
</tbody>
</table>
M&Ms (Making Math Stick)

Rising 6th Grade: Week 7

Find the sum.

5,341 + 20 =

16 \frac{1}{45} + 1 \frac{1}{45} =

5.6 + 0.45 + 0.045 =

19 + 0.28 =

Rewrite the improper fraction as a mixed number. Simplify.

\[
\frac{93}{40} = \frac{37}{6} =
\]

\[
\frac{45}{14} = \frac{39}{4} =
\]

Rewrite the mixed number as an improper fraction.

\[
5 \frac{3}{4} =
\]

\[
6 \frac{3}{10} =
\]

\[
7 \frac{2}{9} =
\]

\[
8 \frac{11}{18} =
\]

Find the Least Common Multiple.

19 and 9

22 and 6

8 and 12

9 and 21

Find the Greatest Common Factor.

19 and 9

22 and 6

8 and 12

9 and 21

Fraction Operations. Simplify.

\[
2 \frac{1}{22} + 1 \frac{5}{6} =
\]

\[
7 \frac{1}{8} - 2 \frac{4}{12} =
\]
Determine the operation needed to make the equation true. Choose from addition, subtraction, multiplication, and division.

\[ 64 \quad \square \quad 8 \quad \square \quad 5 \quad = \quad 40 \]

Fill in the missing symbol \(<\), \(>\), or \(=\).

\[ \frac{4}{11} \quad \square \quad \frac{1}{3} \]

Fill in the missing number.

\[ \underline{1} \quad 2 \quad 1 \]

\[ \underline{\underline{3}} \quad \underline{8} \]

Label each of the following angles obtuse, acute, right, or straight.
### M&Ms (Making Math Stick)

#### Rising 6th Grade: Week 8

<table>
<thead>
<tr>
<th><strong>Find the quotient.</strong></th>
<th><strong>Simplify the expressions.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>660 ÷ 33 = 20</td>
<td>36 ÷ 6(7 - 4) = 6</td>
</tr>
<tr>
<td>6,240 ÷ 6 = 1,040</td>
<td>(11 + 5) - 4 ÷ 2 = 13</td>
</tr>
<tr>
<td>996 ÷ 0.03 = 33,193.5</td>
<td>36 ÷ (14 - 5) + 3 = 5</td>
</tr>
<tr>
<td>3/14 ÷ 9/20 = 0.57</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Order the numbers in ascending order.</strong></th>
<th><strong>Find the product.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>9/20, 111/250, 0.04, 0.44</td>
<td>2/11 × 7/6 = 0.123</td>
</tr>
<tr>
<td></td>
<td>(0.008)(400) = 0.32</td>
</tr>
<tr>
<td></td>
<td>(0.00003)(80) = 0.0024</td>
</tr>
<tr>
<td></td>
<td>13 · 13 = 169</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Find the difference.</strong></th>
<th><strong>Simplify the fractions.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>6,734 - 48 = 6,686</td>
<td>14/24 = 0.5833</td>
</tr>
<tr>
<td>9/35 - 2/35 = 7/35</td>
<td>20/25 = 0.8</td>
</tr>
<tr>
<td>7.1 - 1.78 - 0.178 = 5.15</td>
<td></td>
</tr>
<tr>
<td>17 - 0.11 = 16.89</td>
<td>16/18 = 0.8889</td>
</tr>
<tr>
<td></td>
<td>15/24 = 0.625</td>
</tr>
</tbody>
</table>
### M&Ms (Making Math Stick)

#### Rising 6th Grade: Week 8

**Find the sum.**

<table>
<thead>
<tr>
<th>Expression</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>$6,734 + 48$</td>
<td></td>
</tr>
<tr>
<td>$9 + 2$</td>
<td></td>
</tr>
<tr>
<td>$\frac{37}{35} + \frac{2}{35}$</td>
<td></td>
</tr>
<tr>
<td>$7.1 + 1.78 + 0.178$</td>
<td></td>
</tr>
<tr>
<td>$17 + 0.11$</td>
<td></td>
</tr>
</tbody>
</table>

**Rewrite the improper fraction as a mixed number. Simplify.**

<table>
<thead>
<tr>
<th>Fraction</th>
<th>Simplified</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\frac{49}{15}$</td>
<td>$\frac{28}{13}$</td>
</tr>
<tr>
<td>$\frac{37}{12}$</td>
<td>$\frac{97}{30}$</td>
</tr>
</tbody>
</table>

**Rewrite the mixed number as an improper fraction.**

<table>
<thead>
<tr>
<th>Mixed Number</th>
<th>Improper Fraction</th>
</tr>
</thead>
<tbody>
<tr>
<td>$7 \frac{2}{7}$</td>
<td>$\frac{51}{7}$</td>
</tr>
<tr>
<td>$2 \frac{13}{40}$</td>
<td>$\frac{89}{40}$</td>
</tr>
<tr>
<td>$8 \frac{3}{7}$</td>
<td>$\frac{59}{7}$</td>
</tr>
<tr>
<td>$4 \frac{3}{20}$</td>
<td>$\frac{83}{20}$</td>
</tr>
</tbody>
</table>

**Find the Least Common Multiple.**

- $4$ and $14$
- $2$ and $8$
- $3$ and $7$
- $9$ and $10$

**Find the Greatest Common Factor.**

- $4$ and $14$
- $2$ and $8$
- $3$ and $7$
- $9$ and $10$

**Fraction Operations. Simplify.**

- $\frac{3}{4} + 5 \frac{5}{14} = \frac{41}{56}$
- $8 \frac{2}{3} - 1 \frac{2}{7} = \frac{43}{21}$
Determine the operation needed to make the equation true. Choose from addition, subtraction, multiplication, and division.

\[
6 \ [\quad] 7 \ [\quad] 20 = 22
\]

Fill in the missing symbol (<, >, or =).

\[
\frac{2}{12} \ [\quad] \frac{4}{7}
\]

Fill in the missing numbers.

\[
\begin{align*}
\_ & \_ & 4 & \_ & 7 \\
-4 & 2 & \_ & 3 & 5 \\
\_ & 2 & 8 & 8 & 9 & 2
\end{align*}
\]

Accurately draw a triangle congruent to \(\triangle ABC\). Label it \(\triangle DEF\).
### Find the quotient.

- \(580 \div 29 = \) 20
- \(7,021 \div 7 = \) 1,003
- \(3.52 \div 0.5 = \) 7.04
- \(12 \div \frac{1}{6} = \) 72

### Simplify the expressions.

- \((5 + 3) \times 10 - 3^2 = \) 47
- \((31 - 7) \div 4 + 2 = \) 8
- \(9 + 18 \div (12 - 3) = \) 12

### Order the numbers in descending order.

- \(\frac{32}{50}, \frac{311}{500}, 0.064, 0.65\)

### Find the product.

- \(\frac{10}{11} \times \frac{13}{30} = \) 0.5
- \((0.2)(4) = \) 0.8
- \((0.003)(5,000) = \) 0.15
- \(14 \cdot 14 = \) 196

### Find the difference.

- \(5,291 - 33 = \) 5,258
- \(12 \div \frac{7}{33} = \) \(12 \cdot \frac{33}{7} = \) \( \frac{12 \cdot 33}{7} = \) \( \frac{396}{7} = \) 56.57
- \(8.12 - 1.28 - 0.821 = \) 5.619
- \(21 - 1.29 = \) 19.71

### Simplify the fractions.

- \(\frac{15}{20} = \) \(\frac{3}{4} = \) \( \frac{12}{28} = \) \(\frac{3}{7} = \)
- \(\frac{8}{18} = \) \(\frac{4}{9} = \) \(\frac{18}{24} = \) \(\frac{3}{4} = \)
### Find the sum.

- $5,291 + 33 = \phantom{12.12}$
- $12 + 7 = \phantom{33.33}$
- $\frac{8.12 + 1.28 + 0.821}{10} = \phantom{77.77}$
- $21 + 1.29 = \phantom{27.27}$

### Rewrite the improper fraction as a mixed number. Simplify.

- $\frac{35}{17} = \phantom{47.47}$
- $\frac{77}{10} = \phantom{77.77}$

### Rewrite the mixed number as an improper fraction.

- $4 \frac{4}{5} = \phantom{17.17}$
- $6 \frac{3}{4} = \phantom{5.5}$

### Find the Least Common Multiple.

- 9 and 81
- 6 and 10
- 12 and 18
- 4 and 24

### Find the Greatest Common Factor.

- 9 and 81
- 6 and 10
- 12 and 18
- 4 and 24

### Fraction Operations. Simplify.

- $3 \frac{5}{6} + 9 \frac{3}{10} = \phantom{11.11}$
- $11 \frac{3}{12} - 3 \frac{7}{18} = \phantom{11.11}$
<table>
<thead>
<tr>
<th>Determine the operation needed to make the equation true. Choose from addition, subtraction, multiplication, and division.</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 □ 4 □ 8 = 56</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fill in the missing symbol (&lt;, &gt;, or =).</th>
</tr>
</thead>
<tbody>
<tr>
<td>□</td>
</tr>
<tr>
<td>4 □ 7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fill in the missing numbers.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 (\frac{1}{9}) + (\square) = 3 (\frac{7}{9})</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>The formula for the area (A) of a trapezoid with bases ((b_1 \text{ and } b_2)) and height ((h)) is:</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ A = \frac{1}{2} h (b_1 + b_2) ]</td>
</tr>
<tr>
<td>Find the area of a trapezoid with (h = \frac{1}{3} \text{ ft}, b_1 = \frac{2}{3} \text{ ft}, b_2 = 1 \frac{1}{3} \text{ ft})</td>
</tr>
<tr>
<td>Find the quotient.</td>
</tr>
<tr>
<td>-------------------</td>
</tr>
<tr>
<td>525 ÷ 25 =</td>
</tr>
<tr>
<td>2,008 ÷ 4 =</td>
</tr>
<tr>
<td>3.8 ÷ 0.00038 =</td>
</tr>
<tr>
<td>1/7 ÷ 7 =</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order the numbers in ascending order.</th>
<th>Find the product.</th>
<th>Find the product.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/5', 18/25', 0.700, 0.45</td>
<td>7/15 × 30/31 =</td>
<td>(0.0007)(3,000) =</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(0.02)(50) =</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 · 15 =</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Find the difference.</th>
<th>Simplify the fractions.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6,514 − 59 =</td>
<td>15/48 = 16/28 =</td>
</tr>
<tr>
<td>13/99 − 7/99 =</td>
<td></td>
</tr>
<tr>
<td>3.45 − 0.345 − 0.001 =</td>
<td>20/30 = 16/24 =</td>
</tr>
<tr>
<td>13 − 0.67 =</td>
<td></td>
</tr>
<tr>
<td>Operation</td>
<td>Expression</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Find the sum</td>
<td>6,514 + 59</td>
</tr>
<tr>
<td></td>
<td>13 + 7/99</td>
</tr>
<tr>
<td></td>
<td>3.45 + 0.345 + 0.001</td>
</tr>
<tr>
<td>Rewrite the improper fraction as a mixed number. Simplify.</td>
<td>38/9 = 29/14</td>
</tr>
<tr>
<td></td>
<td>219/100 = 47/6</td>
</tr>
<tr>
<td>Rewrite the mixed number as an improper fraction.</td>
<td>2 5/8 = 2 13/30</td>
</tr>
<tr>
<td></td>
<td>3 7/12 = 7 2/13</td>
</tr>
<tr>
<td>Find the Least Common Multiple.</td>
<td>6 and 21</td>
</tr>
<tr>
<td></td>
<td>11 and 17</td>
</tr>
<tr>
<td></td>
<td>16 and 20</td>
</tr>
<tr>
<td></td>
<td>8 and 15</td>
</tr>
<tr>
<td>Find the Greatest Common Factor.</td>
<td>6 and 21</td>
</tr>
<tr>
<td></td>
<td>11 and 17</td>
</tr>
<tr>
<td></td>
<td>16 and 20</td>
</tr>
<tr>
<td></td>
<td>8 and 15</td>
</tr>
<tr>
<td>Fraction Operations. Simplify.</td>
<td>6 3/16 + 2 17/20</td>
</tr>
<tr>
<td></td>
<td>8 5/6 - 3 5/21</td>
</tr>
</tbody>
</table>

### Instructions:
- Find the sum.
- Rewrite the improper fraction as a mixed number. Simplify.
- Rewrite the mixed number as an improper fraction.
- Find the Least Common Multiple.
- Find the Greatest Common Factor.
- Fraction Operations. Simplify.
Determine the operation needed to make the equation true. Choose from addition, subtraction, multiplication, and division.

\[ 43 \, \square \, 21 \, \square \, 17 = 47 \]

Fill in the missing symbol (\(<\), \(>\), or \(=\)).

\[ \frac{2}{3} \, \square \, \frac{6}{7} \]

Fill in the missing numbers.

\[ 2 \, \frac{5}{12} + \square \, \frac{6}{6} = 2 \, \frac{7}{12} \]

Find the area of the polygon.

[Diagram of a polygon with dimensions 2 ft, 5 ft, 4 ft, 6 ft, 9 ft, and 2 ft].
Find the quotient.

\[
\begin{align*}
972 + 9 &= 108 \\
2737 + 8 &= 2845 \\
5622 + 0.006 &= 5622.006 \\
5 + 5 &= 10 \\
\end{align*}
\]

Simplify the expression.

\[
\begin{align*}
5 \cdot (6 - 2) + 1 &= 10 \\
5 \cdot (6 - 2) - 1 &= 11 \\
5 \cdot (2 - 6) + 1 &= 4 \\
5 \cdot (2 - 6) - 1 &= 0 \\
\end{align*}
\]

Order the numbers in descending order.

\[
\begin{align*}
3 &< 33 \\
-5 &< 33 \\
10 &< 1,600 \\
0.33 &< 0.33 \\
0.003 &< 0.03 \\
\end{align*}
\]

Find the product.

\[
\begin{align*}
\frac{4}{5} \cdot \frac{2}{5} &= \frac{8}{25} \\
(0.008)(800,000) &= 6,400 \\
(0.09)(4,000) &= 360 \\
6 &< 6 \\
\end{align*}
\]

Find the difference.

\[
\begin{align*}
5,323 - 21 &= 5,302 \\
3 &< 3 \\
10 &< 10 \\
0.30190.002 &= 3.247 \\
8 &< 8 \\
\end{align*}
\]

Simplify the fractions.

\[
\begin{align*}
\frac{6}{3} &= \frac{2}{1} \\
\frac{3}{12} &= \frac{1}{4} \\
\frac{5}{18} &= \frac{5}{18} \\
\frac{3}{4} &= \frac{3}{4} \\
\end{align*}
\]

Find the greatest common factor.

\[
\begin{align*}
2 \text{ and } 3 &= 1 \\
12 \text{ and } 30 &= 6 \\
3 \text{ and } 8 &= 1 \\
6 \text{ and } 21 &= 3 \\
\end{align*}
\]

Simplify the expressions.

\[
\begin{align*}
7 \cdot (11 - 3) - 5 &= 97 \\
8 \cdot (6 - 2) - 2 &= 24 \\
10 - 3 - 4 &= 15 \\
\end{align*}
\]

Find the sum.

\[
\begin{align*}
5.323 + 21 &= 5.344 \\
4 &< 13 \\
6.3 + 3.019 + 0.002 &= 9.329 \\
8 + 0.03 &= 8.03 \\
\end{align*}
\]

Rewrite the improper fraction as a mixed number. Simplify.

\[
\begin{align*}
4 &< 13 \\
5 &< 13 \\
\frac{4}{5} &= \frac{24}{15} \\
\frac{15}{7} &= \frac{7}{5} \\
\end{align*}
\]

Find the least common multiple.

\[
\begin{align*}
2 \text{ and } 3 &= 6 \\
12 \text{ and } 30 &= 60 \\
3 \text{ and } 8 &= 24 \\
6 \text{ and } 21 &= 42 \\
\end{align*}
\]

Find the greatest common factor.

\[
\begin{align*}
2 \text{ and } 3 &= 1 \\
12 \text{ and } 30 &= 6 \\
3 \text{ and } 8 &= 1 \\
6 \text{ and } 21 &= 3 \\
\end{align*}
\]

Rewrite the mixed number as an improper fraction.

\[
\begin{align*}
1 \frac{1}{2} &= \frac{3}{2} \\
1 \frac{3}{4} &= \frac{7}{4} \\
\frac{1}{2} &= \frac{3}{4} \\
\frac{1}{4} &= \frac{3}{4} \\
\end{align*}
\]

Fill in the missing numbers.

\[
\begin{align*}
\frac{4}{2} &= \frac{6}{1} \\
\frac{2}{1} &= \frac{6}{1} \\
\frac{2}{1} &= \frac{6}{1} \\
\frac{2}{1} &= \frac{6}{1} \\
\end{align*}
\]

Place two subtraction signs between these digits to give the correct difference.

\[
\begin{align*}
3 &< 7 - 9 = 22 \\
\frac{2}{3} &< \frac{4}{3} \\
\frac{3}{5} &< \frac{4}{7} \\
\frac{1}{2} &< \frac{4}{5} \\
\end{align*}
\]

Fill in the missing numbers.

\[
\begin{align*}
\frac{1}{4} &= \frac{2}{2} \\
\frac{1}{4} &= \frac{2}{2} \\
\frac{1}{4} &= \frac{2}{2} \\
\frac{1}{4} &= \frac{2}{2} \\
\end{align*}
\]

Find the missing numbers.

\[
\begin{align*}
\frac{4}{2} &= \frac{6}{1} \\
\frac{2}{1} &= \frac{6}{1} \\
\frac{2}{1} &= \frac{6}{1} \\
\frac{2}{1} &= \frac{6}{1} \\
\end{align*}
\]

Place two subtraction signs between these digits to give the correct difference.

\[
\begin{align*}
3 &< 7 - 9 = 22 \\
\frac{2}{3} &< \frac{4}{3} \\
\frac{3}{5} &< \frac{4}{7} \\
\frac{1}{2} &< \frac{4}{5} \\
\end{align*}
\]

The division sign is missing. Between which two numbers does it belong?

\[
\begin{align*}
\frac{3}{0} &= \frac{7}{5} \div \frac{2}{5} = 123 \\
\frac{3}{0} &= \frac{7}{5} \div \frac{2}{5} = 123 \\
\frac{3}{0} &= \frac{7}{5} \div \frac{2}{5} = 123 \\
\frac{3}{0} &= \frac{7}{5} \div \frac{2}{5} = 123 \\
\end{align*}
\]

Fill in the missing symbol (+, -, or ×).

\[
\begin{align*}
\frac{1}{0} &= \frac{2}{2} \\
\frac{1}{0} &= \frac{2}{2} \\
\frac{1}{0} &= \frac{2}{2} \\
\frac{1}{0} &= \frac{2}{2} \\
\end{align*}
\]

Draw.

\[
\begin{align*}
\frac{2}{6} &= 3 \\
\frac{2}{6} &= 3 \\
\frac{2}{6} &= 3 \\
\frac{2}{6} &= 3 \\
\end{align*}
\]

Two Parallel Lines:

\[
\begin{align*}
\frac{2}{6} &= 3 \\
\frac{2}{6} &= 3 \\
\frac{2}{6} &= 3 \\
\frac{2}{6} &= 3 \\
\end{align*}
\]

Two Perpendicular Lines:

\[
\begin{align*}
\frac{2}{6} &= 3 \\
\frac{2}{6} &= 3 \\
\frac{2}{6} &= 3 \\
\frac{2}{6} &= 3 \\
\end{align*}
\]

Determine the operation needed to make the equation true. Choose from addition, subtraction, multiplication, and division.

\[
\begin{align*}
15 &= 11 + 3 = 7 \\
\frac{1}{2} &= \frac{4}{5} \\
\frac{1}{2} &= \frac{4}{5} \\
\frac{1}{2} &= \frac{4}{5} \\
\end{align*}
\]

Fill in the missing numbers.

\[
\begin{align*}
\frac{2}{6} &= 3 \\
\frac{2}{6} &= 3 \\
\frac{2}{6} &= 3 \\
\frac{2}{6} &= 3 \\
\end{align*}
\]

What is the volume of this cube?

\[
\begin{align*}
V &= \text{in}^3 \\
V &= \text{in}^3 \\
V &= \text{in}^3 \\
V &= \text{in}^3 \\
\end{align*}
\]
Find the quotient.

1. \( 425 \div 25 = 17 \)
2. \( 7042 \div 7 = 1006 \)
3. \( 1818 \div 6 = 303 \)
4. \( 12 \div 3 = 4 \)

Order the numbers in ascending order.

1. \( 3, 10, 12, 20 \)
2. \( 5, 15, 25, 50 \)
3. \( 7, 14, 21, 28 \)
4. \( 10, 20, 30, 40 \)

Find the product.

1. \( 2 \times 14 \) (Corrected from \( 2 - 14 \))
2. \( 15 \times 20 = 300 \)
3. \( 12 \times 15 = 180 \)
4. \( 10 \times 20 = 200 \)

Find the difference.

1. \( 5341 - 20 = 5321 \)
2. \( 16 - 8 = 8 \)
3. \( 56 - 6 = 50 \)
4. \( 19 - 1 = 18 \)

Simplify the expressions.

1. \( 36 + 6(7 - 4) = 36 + 6(3) = 36 + 18 = 54 \)
2. \( 92 \div 2 = 46 \)
3. \( 7 + 178 + 0.178 = 197.178 \)
4. \( 8 - 5 = 3 \)

Rewrite the mixed number as an improper fraction.

1. \( \frac{3}{15} = \frac{1}{5} \)
2. \( \frac{5}{10} = \frac{1}{2} \)
3. \( \frac{7}{21} = \frac{1}{3} \)
4. \( \frac{9}{27} = \frac{1}{3} \)

Find the least common multiple.

1. \( 18 \)
2. \( 15 \)
3. \( 12 \)
4. \( 6 \)

Find the greatest common factor.

1. \( 18, 36 \)
2. \( 24, 36 \)
3. \( 12, 6 \)
4. \( 9, 15 \)

Simplify the fractions.

1. \( \frac{36}{60} = \frac{3}{5} \)
2. \( \frac{15}{25} = \frac{3}{5} \)
3. \( \frac{9}{18} = \frac{1}{2} \)
4. \( \frac{12}{24} = \frac{1}{2} \)

Find the sum.

1. \( 5341 + 20 = 5361 \)
2. \( 16 + 45 = 61 \)
3. \( 5.6 + 0.45 = 6.05 \)
4. \( 19 + 0.28 = 19.28 \)

Rewrite the improper fraction as a mixed number.

1. \( \frac{93}{40} = 2 \frac{3}{4} \)
2. \( \frac{45}{14} = 3 \frac{3}{7} \)

Fill in the missing number.

1. \( \frac{1}{4} \)
2. \( \frac{1}{5} \)
3. \( \frac{1}{8} \)

Label each of the following angles obtuse, acute, right, or straight.

1. \( \angle A \)
2. \( \angle B \)
3. \( \angle C \)

Find the area of a trapezoid with bases \( b_1 = \frac{1}{2} \) and \( b_2 = \frac{1}{2} \). The height \( h \) is given.

1. \( A = \frac{1}{2} \cdot h \cdot (b_1 + b_2) \)
2. \( A = \frac{1}{2} \cdot \frac{1}{2} \cdot (\frac{1}{2} + \frac{1}{2}) \)
3. \( A = \frac{1}{2} \cdot \frac{1}{2} \cdot 1 = \frac{1}{4} \)
Find the quotient.

\[ \frac{525}{25} = 21 \]
\[ \frac{2008}{4} = 502 \]
\[ 3.8 \div 0.0038 = 10,000 \]
\[ \frac{1}{2} + \frac{7}{4} = \frac{9}{4} \]

Simplify the expressions.

\[ (7 + 2)^2 \times 5 = 25 \]
\[ (5 + 1) \times 5 = 30 \]
\[ 34 - 3 \times (5 + 3) = 10 \]
\[ 34 - 3(4) = 20 \]
\[ 6 + \frac{2}{(6 - 5)} = 6 + 2 \]
\[ 6 + \frac{3}{6} = 1 \]

Find the sum.

\[ \frac{6.514 + 59}{99} = \frac{6.573}{99} \]
\[ \frac{13 + 7}{99} = \frac{20}{99} \]
\[ 3.45 + 0.345 + 0.001 = 3.80 \]
\[ \frac{13 + 0.67}{15.67} = \frac{13.67}{15.67} \]

Rewrite the improper fraction as a mixed number. Simplify.

\[ \frac{30}{9} = \frac{10}{3} \]
\[ \frac{29}{14} = \frac{9}{4} \]
\[ 219 \frac{1}{100} = 219 \frac{1}{100} \]
\[ 47 \frac{6}{6} = 47 \]

Order the numbers in ascending order.

\[ \frac{\frac{3}{5} + \frac{18}{25}}{0.700} < 0.45 \]
\[ \frac{\frac{7}{15} - \frac{3}{31}}{0.0007}(3.000) = 2.000 \]
\[ \frac{\frac{0.02}{50}}{100} \]
\[ \frac{15 - 15}{22.5} \]

Find the product.

\[ \frac{\frac{7}{30} \times \frac{1}{31}}{\frac{1}{31}} = \frac{7}{31} \]
\[ \frac{0.0077}(3.000) = 0.022 \]
\[ \frac{0.02}{50} \]
\[ \frac{15 - 15}{22.5} \]

Rewrite the mixed number as an improper fraction.

\[ \frac{2 \frac{5}{8}}{\frac{21}{8}} = \frac{23}{8} \]
\[ \frac{2 \frac{13}{30}}{30} = \frac{32}{30} \]
\[ \frac{3 \frac{7}{12}}{\frac{41}{12}} \]
\[ \frac{7 \frac{2}{13}}{13} \]

Find the Greatest Common Factor.

\[ 6 \text{ and } 21 \]
\[ 11 \text{ and } 17 \]
\[ 16 \text{ and } 20 \]
\[ 8 \text{ and } 15 \]

Find the Least Common Multiple.

\[ 6 \text{ and } 21 \]
\[ 11 \text{ and } 17 \]
\[ 16 \text{ and } 20 \]
\[ 8 \text{ and } 15 \]

Fill in the missing numbers.

\[ \frac{2}{5} - \frac{1}{12} = \frac{7}{12} \]
\[ 2 \frac{5}{12} + \frac{1}{6} = \frac{7}{12} \]

Find the area of the polygon.

\[ A = 34 \text{ ft}^2 \]