1. Which number is equal to $10^4$?

A. 100  
B. 1,000  
C. 10,000  
D. 100,000

2. Which fraction model best represents $4 \times \frac{2}{3}$?

A.  

B.  

C.  

D. 
3. Conner is buying tickets to a concert. The concert he and his friends want to see costs $4.75 per ticket. Connor has $26.00 total. What is the greatest number of tickets Connor can buy?

A. 4  
B. 5  
C. 6  
D. 7

4. Tyler is 8 years old. His sister Olivia is 4 years less than twice his age. Write a numerical expression for Olivia’s age in the box below.

5. Write one number in each box to create a fraction that correctly completes each statement.

A. \[ 4 \times \boxed{} < 4 \]  
B. \[ 4 \times \boxed{} = 4 \]  
C. \[ 4 \times \boxed{} > 4 \]
6. Select two fractions that can be rewritten with a denominator of 24.

A. \( \frac{1}{6} \)
B. \( \frac{1}{5} \)
C. \( \frac{5}{7} \)
D. \( \frac{9}{10} \)
E. \( \frac{1}{9} \)
F. \( \frac{7}{8} \)

7. All parallelograms have opposite sides that are equal in length and parallel. Determine whether each polygon shown is also a parallelogram. Select Yes or No for each polygon.

<table>
<thead>
<tr>
<th>Polygon</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rectangle</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Trapezoid</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Rhombus</td>
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</tbody>
</table>
8. Lola has 4 orange juice containers. Each container is $\frac{5}{8}$ full. Lola claims to have a total of $2 \frac{1}{2}$ gallons of orange juice in the 4 containers. Which of these statements must be true in order for Lola’s claim to be correct?

A. Each container has a capacity of $\frac{5}{8}$ gallon.
B. Each container has a capacity of $1$ gallon.
C. Each container has a capacity of $2 \frac{1}{2}$ gallons.
D. Each container has a capacity of $8$ gallons.

9. Ryan has $\frac{1}{2}$ pound of chocolate. He divides it into 4 equal portions. Write the amount of chocolate, in pounds, in each portion in the box below.
10. Select all expressions that are equal to $3\ \frac{1}{4}$.

A. $26 \times \frac{1}{8}$

B. $2 \frac{1}{8} \times 2$

C. $4 \times 13$

D. $\frac{1}{4} \times 3$

E. $13 \times \frac{1}{4}$
11. The right rectangular prism shown has a length of 6 centimeters, width of 3 centimeters, and height of 4 centimeters.

Determine whether each equation can be used to find the volume \((V)\) of this prism. Select Yes or No for each equation.

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>(V = 18 \times 4)</td>
<td></td>
</tr>
<tr>
<td>(V = (6 + 3) \times 4)</td>
<td></td>
</tr>
<tr>
<td>(V = 6 \times 3 \times 4)</td>
<td></td>
</tr>
<tr>
<td>(V = 9 \times 4)</td>
<td></td>
</tr>
</tbody>
</table>
Answer Key

1. C
2. C
3. B
4. $2 \cdot 8 - 4$ or 12
5. e.g., $\frac{1}{2'}, \frac{1}{1'}\frac{2}{1'}\frac{1}{1'}$
6. $\frac{1}{6'}\frac{7}{8}$
7. Yes, No, Yes
8. B
9. $\frac{1}{8}$ lb
10. $26 \times \frac{1}{8}, 13 \times \frac{1}{4}$
11. Yes, No, Yes, No