1. Simplify (a) \( \frac{1}{6} + \frac{1}{9} \)  
\[ \frac{1}{2} \]
(b) \( \frac{19}{3} \left( \frac{1}{5}k + 24 \right) - \frac{4}{15}k \)

2. Evaluate the expression \( x^2 + 4y \) with \( x = -1.5 \) and \( y = 2.4 \), showing substitutions.

3. Convert to simplified fractions.
   (a) \( 0.723 \)
   (b) \( 0.\overline{723} \)
   (c) \( 0.7\overline{23} \)

4. Convert \( \frac{19}{37} \) to decimal form. Do not round. If the decimal is repeating, use bar notation in the simplest way.

5. Solve the equation \( \frac{2\frac{4}{5}}{H} = \frac{28}{13} \). \( H = \)

7. A store is holding a sale offering a 12\% \text{ discount}. Find the \text{ discount} and sale price on a DVD with a \text{ regular price} of $17.49.

8. (a) Convert \( \frac{39}{40} \) to a \text{ percent}. Do not round.

(b) Convert \( 7 \frac{4}{5} \% \) to a \text{ reduced fraction}.

9. If we can drive 848 miles on 32 gallons of gas, how far can we drive on 26 gallons of gas? (Set up and solve a proportion to solve the problem. Check, and answer with a sentence.) You can round to the nearest 0.1 mile.

(2 points, total.)