

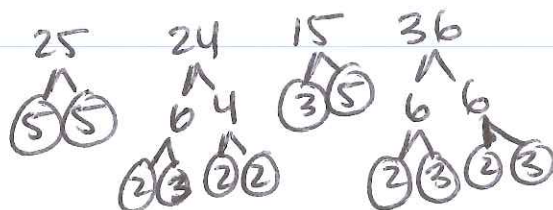
Name Key

# Math 40 - Quiz 1

Be sure to use PROPER mathematical notation and show some steps. Use back of page if needed.

1. Perform the operation and simplify completely.

a.  $\frac{25}{24} \div \frac{15}{36} = \frac{25}{24} \cdot \frac{36}{15}$   
 $= \frac{5 \cdot 5 \cdot \cancel{2} \cdot \cancel{2} \cdot \cancel{3} \cdot \cancel{3}}{\cancel{2} \cdot \cancel{2} \cdot \cancel{2} \cdot \cancel{3} \cdot \cancel{3} \cdot 5}$   
 $= \boxed{\frac{5}{2}}$



b.  $\frac{5}{12} + \frac{3}{8}$   
 $= \frac{5}{2 \cdot 2 \cdot 3} \cdot \frac{2}{2} + \frac{3}{2 \cdot 2 \cdot 2} \cdot \frac{3}{3}$   
 $= \frac{10}{24} + \frac{9}{24} = \boxed{\frac{19}{24}}$

76 reals!  
96 1.5!

2. Round the given number to the nearest tenth

$123,456.789 \approx \boxed{123,456.8}$

No partial!

3. Perform the operation by hand. Carry out the division until there is no remainder.

a.  $1.34(5.3)$   
 $= \boxed{7.102}$

$$\begin{array}{r} 1.34 \\ \times 5.3 \\ \hline 402 \\ + 6700 \\ \hline 7102 \end{array}$$

3 places to left

b.  $12 \overline{) 345.00}$   
 $\begin{array}{r} 28.75 \\ \underline{-24} \\ 905 \\ \underline{-96} \\ 90 \\ \underline{-84} \\ 60 \\ \underline{-60} \\ 0 \end{array}$

$\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$  Good!  
 $\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$   
 $\begin{array}{r} 12 \\ \times 12 \\ \hline 108 \end{array}$  too high!

$\boxed{28.75}$

No decimal  
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