

Name Key

Math 40 - Quiz # 2

Be sure to use PROPER mathematical notation and **show some steps**. Use back of page if needed.
Leave answers as reduce fractions if needed.

1. Write each as a **reduced fraction, percent AND decimal**.

3 a. $36\% = \frac{36}{100}$
 $= \boxed{0.36}$

Fraction
 $\frac{36}{100} = \frac{2 \cdot 2 \cdot 3 \cdot 3}{2 \cdot 2 \cdot 5 \cdot 5}$
 $= \boxed{\frac{9}{25}}$

36
 \wedge
 66
 \wedge \wedge
 23 23
 100
 \wedge
 10 10
 \wedge \wedge
 25 25

3 b. $\frac{1}{5} = \boxed{0.2}$
 $= \boxed{20\%}$

0.2
 $5 \overline{) 1.0}$
 $\underline{- 10}$
 0

2. Simplify completely using order of operations

Extra Credit
 +2
 a. $4 - \underline{24 \div 6(2)} - 3 = 4 - \underline{4(2)} - 3$
 $= 4 - 8 - 3$
 $= -4 - 3$
 $= \boxed{-7}$

4 b. $\left(\frac{2}{3}\right)^2 \cdot \left(\frac{9}{4}\right) + \frac{5}{2}$
 $= \left(\frac{2}{3}\right)\left(\frac{2}{3}\right)\left(\frac{9}{4}\right) + \frac{5}{2}$
 $= \frac{4}{9} \left(\frac{9}{4}\right) + \frac{5}{2}$
 $= 1 + \frac{5}{2}$
 $= \boxed{\frac{7}{2}}$

$\frac{5}{2}$
 $+ \frac{2}{4}$

No common
 denom
 $\frac{2.5}{4}$