Math 085 - Quiz 10

October 8, 2013

Name __key__

Score _____

Show all your work to receive full credit. Supply explanations when necessary.
NO CALCULATORS ARE ALLOWED ON THIS QUIZ!

1. (1 point) Simplify: $\dfrac{100ab}{150a}$ = $\dfrac{10b}{15}$ = $\boxed{\dfrac{2b}{3}}$

   CANCEL 10a   CANCEL 5

2. (3 points) Multiply and simplify.

   (a) $-\dfrac{\overset{1}{\cancel{4}}}{1} \cdot \left(-\dfrac{5}{\underset{7}{\cancel{28}}}\right)$ = $\boxed{\dfrac{5}{7}}$

   (b) $\left(-\dfrac{5}{\cancel{7}}\right)\left(\dfrac{\overset{2}{\cancel{14}}}{3}\right)$ = $\boxed{-\dfrac{10}{3}}$

   (c) $\left(\dfrac{\overset{2}{\cancel{8}}x}{\cancel{6}}\right)\left(\dfrac{\overset{1}{\cancel{3}}}{\underset{3}{\cancel{12}}y}\right)$ = $\boxed{\dfrac{x}{3y}}$

3. (1 point) Which is greater? How do you know? $\dfrac{305}{145}$ or $\dfrac{122}{58}$

   $\dfrac{61}{29}$ $\dfrac{61}{29}$

   BOTH REDUCE TO THE SAME FRACTION.

   THEY ARE EQUAL!