Math 085 - Quiz 12

October 24, 2013

Name __key__

Score _____

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

1. (4 points) Add or subtract. Then reduce to lowest terms.

(a) $\dfrac{5}{8} + \dfrac{9}{8} = \dfrac{14}{8} = \boxed{\dfrac{7}{4}}$

(b) $\dfrac{3}{8} + \dfrac{7}{12} = \dfrac{9}{24} + \dfrac{14}{24} = \boxed{\dfrac{23}{24}}$

(c) $-\dfrac{7}{9} + \dfrac{1}{6} = -\dfrac{14}{18} + \dfrac{3}{18} = \boxed{\dfrac{-11}{18}}$

(d) $-\dfrac{5}{12} - \dfrac{11}{18} = -\dfrac{15}{36} - \dfrac{22}{36} = \boxed{\dfrac{-37}{36}}$

2. (1 point) Use a common denominator to place these fractions in order from least to greatest.

$$\dfrac{1}{3}, \quad \dfrac{7}{20}, \quad \dfrac{1}{4}, \quad \dfrac{3}{10}$$

LCD IS 60

$\dfrac{1}{3} = \dfrac{20}{60}$, $\dfrac{7}{20} = \dfrac{21}{60}$, $\dfrac{1}{4} = \dfrac{15}{60}$, $\dfrac{3}{10} = \dfrac{18}{60}$

IN ORDER...

$$\boxed{\dfrac{1}{4}, \quad \dfrac{3}{10}, \quad \dfrac{1}{3}, \quad \dfrac{7}{20}}$$