

Math 085 - Quiz 7

March 13, 2013

Name key Score _____

Show all your work to receive full credit. Supply explanations when necessary.

1. (3 points) Multiply and simplify.

(a) $\frac{\cancel{4}^1}{10} \cdot \frac{\cancel{8}^1}{\cancel{20}^1} = \frac{1}{10}$

(b) $-\frac{5}{\cancel{8}^1} \cdot \frac{\cancel{4}^1}{1} = + \frac{20}{1} = \underline{20}$

(c) $\frac{\cancel{36}^4}{\cancel{88}^5} \cdot \frac{\cancel{25}^5}{-11} = - \frac{20}{187}$

(d) $\left(-\frac{15}{\cancel{22}^2}\right) \cdot \frac{\cancel{4}^2}{7} = - \frac{30}{77}$

(e) $\frac{\cancel{16}^4}{-3} \cdot \frac{\cancel{8}^1}{1} = - \frac{4}{3}$

(f) $-\frac{\cancel{12}^3}{1} \cdot \frac{1}{\cancel{4}^1} = \underline{-3}$

2. (1 point) Of the students in the freshman class, $\frac{4}{5}$ have digital cameras. $\frac{1}{4}$ of these students join the photography club. What fraction of students in the freshman class join the photography club?

$$\frac{1}{4} \cdot \frac{4}{5} = \underline{\underline{\frac{1}{5}}}$$

3. (1 point) Solve for x .

(a) $\frac{-7}{22} = \frac{x}{132} \Rightarrow 22x = -924 \Rightarrow \underline{\underline{x = -42}}$

(b) $-\frac{7}{8} = \frac{x}{32} \Rightarrow -8x = 224 \Rightarrow \underline{\underline{x = -28}}$