Name: _____ Date: _____

BLM 8–5

Section 8.2 Warm Up

For #1 to #4, match each expression with the correct first step.

1. $\left(-\frac{2}{9}\right)+\left(-\frac{5}{6}\right)$ _____

2. $\frac{-3}{8} \div \frac{6}{9}$ _____

3. $\frac{-2}{3} \times \frac{6}{-7}$ _____

4. $\frac{7}{8} - \frac{1}{8}$ _____

A Add the numerators.

B Subtract the numerators.

C Use equivalent fractions to change to the same denominator.

D Change each fraction to a mixed number.

E Multiply the numerators and multiply the denominators.

F Change to multiplying by the reciprocal.

5. Write each fraction in lowest terms.

a) $\frac{6}{9}$

b) $\frac{-4}{-8}$

c) $\frac{-10}{18}$

d) $\frac{6}{36}$

e) $\frac{-18}{-6}$

f) $\frac{20}{3}$

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(continued)

6. Simplify using the order of operations.

a) $\frac{9}{8}+\left(-\frac{1}{4}\right)\times 3$

$=\frac{9}{8}+\left(-\frac{1}{4}\right)\times\frac{3}{\square}$

$=\frac{9}{8}+\left(-\frac{\square}{\square}\right)$

$=\frac{9}{8}+\left(-\frac{\square}{8}\right)$

$=\frac{\square}{\square}$

b) $\frac{1}{2}+\frac{1}{3}\div\left(-\frac{1}{4}\right)$

$=\frac{1}{2}+\frac{1}{3}\times\left(-\frac{\square}{\square}\right)$

$=\frac{1}{2}+\left(-\frac{\square}{\square}\right)$

$=\frac{\square}{\square}$

c) $4\frac{1}{2}\times\left(-\frac{2}{3}\right)+\frac{7}{8}$

d) $\frac{4}{9}+\left(\frac{-3}{4}\right)\times\left(-\frac{2}{9}\right)\div\frac{3}{5}$

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