

**Practice Problems for the Review in Class**

The practice problems given are a sample of what will be on the exam. However, the actual exam will include around three times this number of problems.

**Section F2.1: Fractions I**

$$(1.) \frac{2}{1} \times \frac{18}{7} = \frac{12}{7}$$

OR  $1 \frac{5}{7}$

$$(2.) \frac{4}{5} \div \frac{7}{20} = \frac{4}{1} \times \frac{20}{7} = \frac{16}{7}$$

OR  $2 \frac{2}{7}$

(3.) Solve:  $\frac{3}{8} \cdot z = 15$

~~$\frac{3}{8} z = 8 \cdot 15$~~

$$\Rightarrow \frac{3z}{3} = \frac{8 \cdot 15}{3}$$

$$\Rightarrow z = 40$$

**Section F2.2: Fractions II**

(4.)  $\frac{5}{6} + \frac{3}{10}$       LCD = 30

$$\frac{25}{30} + \frac{9}{30} = \frac{34}{30} = \frac{17}{15}$$

OR  $1 \frac{2}{15}$

(5.)  $\frac{7}{12} - \frac{5}{18} + \frac{11}{30}$       LCD = 36

← change to  $\frac{11}{36}$

Answer  $\frac{22}{36} = \frac{11}{18}$

$$= \frac{21}{36} - \frac{10}{36} + \frac{11}{30}$$

$$= \frac{11}{36} + \frac{11}{30}$$
      LCD = 180

$$= \frac{55}{180} + \frac{66}{180}$$

$$= \frac{121}{180}$$

(6.)  $\frac{3}{18} + \frac{1}{2} + \frac{2}{3} \left( \frac{5}{6} - \frac{1}{6} \right)$

$$= \frac{3}{18} + \frac{1}{2} + \frac{2}{3} \times \frac{4}{6}$$

$$= \frac{3}{18} \times \frac{2}{1} + \frac{2}{3} \times \frac{4}{6}$$

$$= \frac{6}{18} + \frac{2}{3} \times \frac{4}{6}$$

$$\Rightarrow \frac{6}{18} + \frac{8}{18}$$

$$= \frac{14}{18}$$

$\frac{7}{9}$

**Section F2.3: Decimals I**

(7.) Order 0.05, 0.50, 0.49, 0.51, and 0.005 from least to greatest.

0.005  
least0.050.490.500.51  
greatest

(8.) Round 15.6445 to the nearest hundredth

15.64

(9.) Write  $\frac{6}{25}$  as a decimal number

$$\frac{6 \times 4}{25 \times 4} = \frac{24}{100} = 0.24$$

**Section F2.4: Decimals II**(10.) Add:  $0.81 + 2.37 + 1.09$ 

$$\begin{array}{r} 0.81 \\ 2.37 \\ 1.09 \\ \hline 4.27 \end{array}$$

(11.) Find  $2.2x - 3.4y + 4.1 + 4.7x + 7.2y$ 

$$6.9x + 3.8y + 4.1$$

(12.) Evaluate:  $1 + 2 \times 3 - 7 \div (9 - 2)$ 

$$= 1 + 2 \times 3 - 7 \div 7$$

$$= 1 + 6 - 7 \div 7$$

$$= 1 + 6 - 1$$

$$= 7 - 1$$

$$= 6$$