

Thursday, Nov 19th

Homework Review p 89

$$1. \quad \frac{8}{9} + \frac{3}{9} - \frac{5}{9}$$



$$= \frac{8+3}{9} - \frac{5}{9}$$

$$= \frac{11}{9} - \frac{5}{9}$$

$$= \frac{11-5}{9}$$

$$= \frac{6 \div 3}{9 \div 3}$$

$$= \frac{2}{3}$$

②

$$\frac{\overset{1}{\cancel{3}}}{\underset{\cdot}{\cancel{2}}\cancel{4}} \times \frac{\overset{1}{\cancel{2}}}{\underset{\cdot}{\cancel{3}}\cancel{3}} \times \frac{\cancel{5}}{\cancel{8}}$$

$$= \frac{1}{2} \times \frac{1}{1} \times \frac{5}{8}$$

$$= \frac{1 \times 1}{2 \times 1} \times \frac{5}{8}$$

$$= \frac{1}{2} \times \frac{5}{8}$$

$$= \frac{1 \times 5}{2 \times 8}$$

$$= \frac{5}{16}$$

$$\frac{3}{1} = \frac{24}{3} + \frac{3}{4} \times \frac{1}{2}$$

$$= \frac{24}{3} + \frac{3 \times 1}{4 \times 2}$$

$$= \frac{24 \times 8}{3 \times 8} + \frac{3 \times 3}{8 \times 3} \quad \text{CD} = 24$$

$$= \frac{192}{24} + \frac{9}{24}$$

$$= \frac{192 + 9}{24}$$

$$\checkmark \frac{3}{3} = \frac{201 \div 3}{24 \div 3}$$

$$= \frac{67}{8}$$

$$8 \overline{) 67} \\ \underline{-64} \\ 3$$

$$\begin{array}{r} 3 \\ \times 24 \\ \hline 192 \\ 67 \\ \hline 3 \overline{) 201} \\ \underline{-18} \downarrow \\ 21 \\ \underline{-21} \\ 0 \end{array}$$

$$\begin{aligned}
 & 14 \quad \frac{\cancel{15}^1}{\cancel{36}^2} \times \frac{\cancel{24}^1}{\cancel{10}^5} + \frac{2}{5} \times \frac{1}{3} \\
 & = \frac{1}{3} \times \frac{1}{1} + \frac{2}{5} \times \frac{1}{3} \\
 & = \frac{1 \times 1}{3 \times 1} + \frac{2}{5} \times \frac{1}{3} \\
 & = \frac{1}{3} + \frac{2}{5} \times \frac{1}{3} \\
 & = \frac{1}{3} + \frac{2 \times 1}{5 \times 3} \\
 & = \frac{1 \times 5}{3 \times 5} + \frac{2}{15} \\
 & = \frac{5}{15} + \frac{2}{15} \\
 & = \frac{5+2}{15} \\
 & = \frac{7}{15}
 \end{aligned}$$

LCD: 15  
or  
30 or 45

$$\begin{aligned}
 & \textcircled{6} \quad \frac{\cancel{1}^1 \cancel{2}^2}{3} \times \frac{5}{\cancel{2}^2 \cancel{4}^2} + \frac{3}{4} \times \frac{1}{2} \\
 & = \frac{1}{3} \times \frac{5}{2} + \frac{3}{4} \times \frac{1}{2} \\
 & = \frac{1 \times 5}{3 \times 2} + \frac{3}{4} \times \frac{1}{2} \\
 & = \frac{5}{6} + \frac{3}{4} \times \frac{1}{2} \\
 & = \frac{5}{6} + \frac{3 \times 1}{4 \times 2} \\
 & = \frac{5 \times 4}{6 \times 4} + \frac{3 \times 3}{8 \times 3} \quad \underline{\text{CD: 24}} \\
 & = \frac{20}{24} + \frac{9}{24} \\
 & = \frac{20+9}{24} \\
 & = \frac{29}{24} \\
 & = 1 \frac{5}{24}
 \end{aligned}$$

$$\begin{array}{r}
 1 \\
 \hline
 24 \overline{) 29} \\
 \underline{-24} \\
 5
 \end{array}$$

(B)

$$\frac{2}{3}t - \frac{1}{4} \quad \text{if } t = \frac{1}{2}$$

$$= \frac{\cancel{2}^1 \cdot \cancel{1}}{3 \cdot \cancel{2}^1} - \frac{1}{4}$$

$$= \frac{1}{3} \cdot \frac{1}{1} - \frac{1}{4}$$

$$= \frac{1 \cdot 1}{3 \cdot 1} - \frac{1}{4}$$

$$= \frac{1 \cdot 4}{3 \cdot 4} - \frac{1 \cdot 3}{4 \cdot 3} \quad \text{LCD} = 12$$

$$= \frac{4}{12} - \frac{3}{12}$$

$$= \frac{4-3}{12}$$

$$= \frac{1}{12}$$

H/w p 89  
B # 3-10