

Wednesday, Nov 18th

BEDMAS w/ Fractions

ex#1

$$\begin{aligned}
 & \frac{2}{3} \div \left(\frac{1}{2} + \underbrace{\frac{\cancel{4}}{5} \times \frac{1}{\cancel{4}}}_{\text{CD} = 10} \right) \\
 = & \frac{2}{3} \div \left(\frac{1}{2} + \frac{1}{5} \times \frac{1}{1} \right) \\
 = & \frac{2}{3} \div \left(\frac{1}{2} + \frac{1 \times 1}{5 \times 1} \right) \\
 = & \frac{2}{3} \div \left(\frac{1 \times 5}{2 \times 5} + \frac{1 \times 2}{5 \times 2} \right) \text{CD} = 10 \\
 = & \frac{2}{3} \div \left(\frac{5}{10} + \frac{2}{10} \right) \\
 = & \frac{2}{3} \div \left(\frac{5+2}{10} \right) \\
 = & \frac{2}{3} \div \frac{7}{10} \\
 = & \frac{2}{3} \times \frac{10}{7} \\
 = & \frac{2 \times 10}{3 \times 7} \\
 = & \frac{20}{21}
 \end{aligned}$$

ex #2

$$\frac{7}{8} - \frac{3}{\cancel{5}} \times \frac{\cancel{40}^8}{41}$$

$$= \frac{7}{8} - \frac{3}{1} \times \frac{8}{41}$$

$$= \frac{7}{8} - \frac{3 \times 8}{1 \times 41}$$

$$= \frac{7 \times 41}{8 \times 41} - \frac{24 \times 8}{41 \times 8}$$

$$= \frac{287}{328} - \frac{192}{328}$$

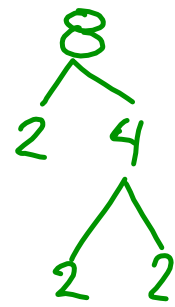
$$= \frac{95}{328}$$

$$\begin{array}{r} 41 \\ \times 7 \\ \hline 287 \end{array}$$

$$\begin{array}{r} 3 \\ \times 241 \\ \times 8 \\ \hline 192 \end{array}$$

$$\begin{array}{r} 1287 \\ - 192 \\ \hline 95 \end{array}$$

CD



$$8 = 2 \times 2 \times 2$$

$$41 =$$

$$\text{LCM} = 2 \times 2 \times 2 \times 41$$

$$8 \times 41$$

$$\begin{array}{r} \times 41 \\ 8 \end{array}$$

CD 328

ex #3

$$\begin{aligned} 3x + 5 &= ? \quad \text{if } x = \frac{2}{3} \\ &= 3 \left(\frac{2}{3} \right) + 5 \\ &= \frac{\cancel{3}^1 \cdot 2}{\cancel{3}_1} + 5 \\ &= \frac{1 \cdot 2}{1} + 5 \\ &= \frac{1 \cdot 2}{1 \cdot 1} + 5 \\ &= \frac{2}{1} + 5 \\ &= 2 + 5 \\ &= 7 \end{aligned}$$

H/W p 89 A #1-11
B #2-10