T-MF Math Fundamentals Week 12

$5\frac{3}{5} + 4\frac{4}{6}$

$\frac{3}{5} + \frac{4}{6}$

$5 + 4 = 9$

$\frac{3}{5} = \frac{18}{30}$ (*6)

$\frac{4}{6} = \frac{20}{30}$ (*5)

$\frac{18}{30} + \frac{20}{30} = \frac{38}{30}$

$\frac{38}{30} \rightarrow 30\overline{)38}$ R 8

$\frac{8 \div 2}{30 \div 2}$

$9 + 1\frac{4}{15} = 10\frac{4}{15}$

$7\frac{1}{6} - 3\frac{2}{7}$

$7\frac{1}{6} = 6\frac{7+42}{42} = 6\frac{49}{42}$

$-3\frac{2}{7} = -3\frac{12}{42}$

$6\frac{49}{42} - 3\frac{12}{42} = 3\frac{37}{42}$

$\frac{1}{6} - \frac{2}{7}$

$\frac{1}{6} = \frac{7}{42}$ (*7)

$\frac{2}{7} = \frac{12}{42}$ (*6)

$\frac{12}{1} * \frac{1}{3} = \frac{12}{3} = 4$

$\frac{1}{6} * \frac{9}{1} = \frac{9 \div 3}{6 \div 3} = \frac{3}{2}$

$\frac{2}{3} * \frac{8}{1} = \boxed{\frac{16}{3}}$ $\left(5\frac{1}{3}\right)$

$\frac{9}{1} * \frac{4}{6} = \frac{36}{6} = (6)$

$\frac{9}{1} * \frac{4}{6} \div 2 \div 2$

$\frac{9}{1} * \frac{2}{3} \div 3 \div 3$

$\frac{3}{1} * \frac{2}{1} = \frac{6}{1} = (6)$

$\frac{7}{9} * \frac{3}{1} = \frac{21}{9} \div 3 \div 3 = \boxed{\frac{7}{3}}$

$\frac{7}{9 \div 3} * \frac{3}{1} \div 3$

$\frac{7}{3} * \frac{1}{1} = \boxed{\frac{7}{3}}$

$\frac{12}{1} \div 2 * \frac{5}{8} \div 2$

$\frac{6}{1} \div 2 * \frac{5}{4} \div 2$

$\frac{3}{1} * \frac{5}{2} = \left(\frac{15}{2}\right)$

$\frac{3}{4} * \frac{1}{6} = \frac{3 \div 3}{24 \div 3} = \boxed{\frac{1}{8}}$

$\div 3$ $\quad$ $\div 3$

$\frac{1}{4} * \frac{1}{2} = \boxed{\frac{1}{8}}$

never reduce horizontally

$\frac{4}{8} * \frac{5}{4} = \frac{20 \div 4}{32 \div 4} = \frac{5}{8}$

$\frac{1}{8} * \frac{5}{1} = \frac{5}{8}$

$\frac{1}{2} * \frac{4}{5}$

$\frac{1}{1} * \frac{2}{5} = \frac{2}{5}$

$\frac{1}{2} * \frac{4}{5}$

$\frac{1}{2}$

$\frac{4}{5}$

1	2	3	4	5
6	7	8	9	10

$\frac{4}{10}$ $\quad$ $\frac{2}{5}$

mixed number improper fraction

$8\frac{1}{8} \longrightarrow$

$8\frac{1}{8} = \frac{(8*8)+1}{8} = \frac{64+1}{8} = \frac{65}{8}$

$8\frac{1}{8} = 1+1+1+1+1+1+1+1+\frac{1}{8}$

$= \frac{8}{8}+\frac{8}{8}+\frac{8}{8}+\frac{8}{8}+\frac{8}{8}+\frac{8}{8}+\frac{8}{8}+\frac{8}{8}+\frac{1}{8}$

$= 8 + \frac{1}{8}$

$7\frac{3}{4} = \frac{(7*4)+3}{4} = \frac{28+3}{4} = \frac{31}{4}$

$5\frac{1}{3} = \frac{(5*3)+1}{3} = \frac{15+1}{3} = \frac{16}{3}$

$\frac{1}{2} * 8\frac{1}{8} \longrightarrow \frac{1}{2} * \frac{65}{8} = \frac{65}{16} \longrightarrow$

$5\frac{1}{3} * \frac{6}{7}$

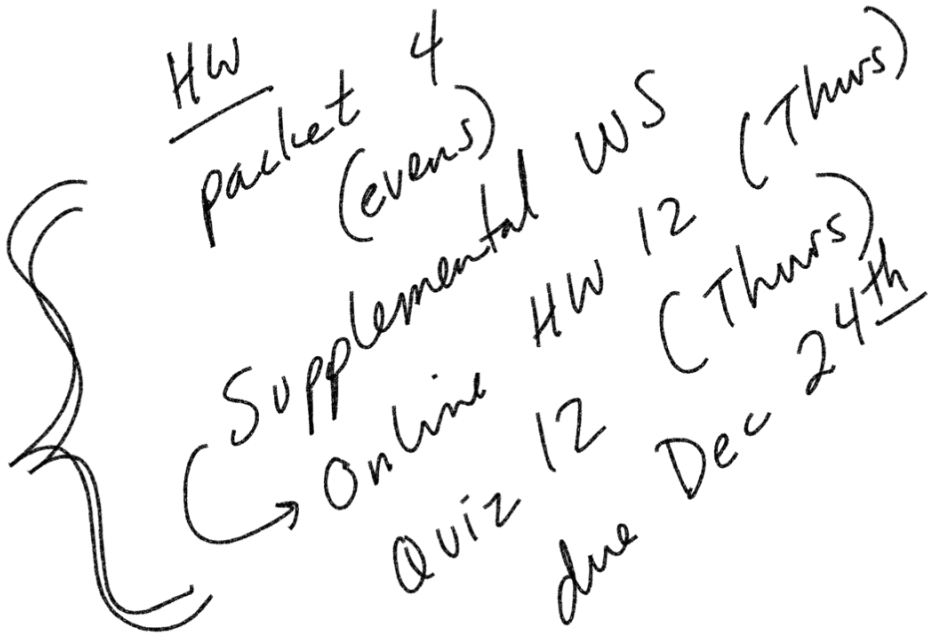
$\frac{16}{3} * \frac{6}{7}$ ($\div 3$, $\div 3$) $\longrightarrow \frac{16}{1} * \frac{2}{7} = \frac{32}{7}$

$4\frac{2}{8} = \frac{(4*8)+2}{8} = \frac{32+2}{8} = \frac{34}{8}$

$4\frac{2}{8} * \frac{22}{9}$

$\frac{34}{8}$ ($\div 2$, $\div 2$) $* \frac{22}{9}$

$\frac{17}{4} * \frac{22}{9}$ ($\div 2$, $\div 2$) $\longrightarrow \frac{17}{2} * \frac{11}{9} = \frac{187}{18}$


HW
packet 4
(evens)
Supplemental WS
Online HW 12 (Thurs)
Quiz 12 (Thurs)
due Dec 24th