$$\frac{1}{4}$$
 $\frac{5}{9}$ + $\frac{2}{9}$ = $\frac{7}{9}$ +2 $\frac{1}{5}$ + $\frac{7}{5}$ = $\frac{5}{5}$ = 1

$$\frac{43}{20} + \frac{5}{20} = \frac{16}{20} = \frac{8}{10} = \frac{4}{5}$$

$$\frac{3}{7} + \frac{5}{7} + \frac{6}{7} = \frac{14}{7} = \frac{2}{1} = 2$$
 $\frac{46}{100} + \frac{3}{100} + \frac{9}{100} = \frac{25}{100} = \frac{1}{4}$

$$\frac{+9}{24} = \frac{23}{24} - \frac{11}{24} = \frac{12}{24} = \frac{1}{2} = \frac{1}{2} = \frac{1}{8} - \frac{3}{8} = \frac{4}{8} = \frac{1}{2}$$

$$411 \quad \frac{9}{10} - \frac{3}{10} = \frac{6}{10} = \frac{3}{5}$$
 $413 \quad \frac{91}{100} - \frac{31}{100} = \frac{60}{100} = \frac{3}{10}$

$$\frac{112}{50} - \frac{9}{50} = \frac{29}{50} = \frac{2}{5}$$

#12
$$\frac{79}{50} - \frac{9}{50} = \frac{20}{50} = \frac{2}{5}$$

#14 $\frac{5}{6} - \frac{1}{6} = \frac{4}{6} = \frac{2}{3}$

#15 $\frac{3}{16} + \frac{3}{8} = \frac{16}{6} = \frac{16}{8} = \frac{16}{16} = \frac{16}{8} = \frac{16}{16} = \frac{16}{8} = \frac{16}{16} = \frac{16}{16$

$$\frac{3}{16} + \frac{6}{16} = \frac{9}{16}$$

$$\frac{7}{20} + \frac{3}{4} \cdot \frac{5}{5}$$

$$\frac{16}{16} + \frac{6}{16} = \frac{9}{16}$$

$$\frac{17}{4} \cdot \frac{7}{9} + \frac{11}{12} \cdot \frac{3}{3} = \frac{120122436}{120122436}$$

$$\frac{7}{20} + \frac{15}{20} = \frac{22}{20} = \frac{11}{10} \text{ or } |\frac{1}{10}$$

$$\frac{7}{20} + \frac{3}{4} \cdot \frac{5}{5}$$

$$\frac{117}{4} \cdot \frac{7}{9} + \frac{11}{12} \cdot \frac{3}{3} \cdot \frac{9}{12 \cdot 012 \cdot 24 \cdot 36}$$

$$\frac{7}{20} + \frac{15}{20} = \frac{22}{20} = \frac{11}{10} \cdot \frac{9}{10} \cdot \frac{1}{10}$$

$$\frac{28}{36} + \frac{33}{36} = \frac{61}{36} \cdot \frac{9}{36} \cdot \frac{25}{36}$$

$$\frac{18}{24} + \frac{4}{24} + \frac{15}{24}$$

$$\frac{18}{24} + \frac{15}{24} + \frac{15}{24}$$

$$\frac{37}{24} \frac{018}{24} = \frac{13}{24} \frac{686768}{600} = \frac{8}{100} = \frac{13}{3}$$

$$\frac{37}{24} \frac{018}{100} = \frac{13}{24} \frac{686768}{100} = \frac{8}{100} = \frac{13}{3}$$

SKILL 17

$$\frac{\#19}{9} = \frac{9}{9} \cdot \frac{3}{10} + \frac{2}{2} \cdot \frac{7}{45} + \frac{11}{90}$$

$$\frac{27}{90} + \frac{14}{90} + \frac{11}{90}$$

$$\frac{52}{90} = \frac{26}{45}$$

$$\frac{\#21}{3} \cdot \frac{3}{7} - \frac{1}{3} \cdot \frac{7}{7}$$

$$\frac{18}{21} - \frac{7}{21}$$

$$\frac{11}{21}$$

 $\frac{28 \div 2}{150 \div 2} = \frac{14}{75}$

#26
$$\frac{4}{4} \cdot \frac{5}{6} - \frac{5}{8} \cdot \frac{3}{3}$$

LCM (6,8)

 $\frac{20}{24} - \frac{15}{24}$

GREATER 8 0 8 16 24

-3

$$\frac{42}{3}$$
 8 + 3 $\frac{1}{7}$

$$\frac{44}{5} \quad 14\frac{3}{8} + 5\frac{5}{8}$$

$$19\frac{8}{8}$$
20

$$\frac{48}{9}$$
 | 16 $\frac{21}{40}$ + 18 $\frac{29}{40}$ = 34 $\frac{50}{40}$ = 35 $\frac{10}{40}$ = 35 $\frac{1}{4}$

$$\frac{49}{10} + 2\frac{9}{10} = 11\frac{16}{10} = 12\frac{6}{10} = 12\frac{3}{5}$$

$$\frac{40}{125} = 13\frac{1}{4}$$

$$411 \qquad 9 \frac{7}{10} \cdot \frac{2}{2} + 16 \frac{1}{4} \cdot \frac{5}{5}$$

$$9 \frac{14}{20} + 16 \frac{5}{20} = 25 \frac{19}{20}$$

#12 13
$$\frac{5}{8}$$
 $\frac{3}{3}$ + 7 $\frac{5}{6}$ $\frac{4}{4}$ #13 14 $\frac{7}{12}$ $\frac{3}{3}$ + 5 $\frac{2}{9}$ $\frac{4}{4}$

13 $\frac{15}{24}$ + 7 $\frac{20}{24}$ 14 $\frac{21}{36}$ + 5 $\frac{8}{36}$

20 $\frac{35}{24}$ 19 $\frac{29}{36}$

$$\frac{414}{10} \quad 10 \quad \frac{3}{4} \cdot \frac{3}{3} + 6 \quad \frac{1}{3} \cdot \frac{7}{7}$$

$$10 \quad \frac{9}{21} \quad f \quad 6 \quad \frac{7}{21} = 16 \quad \frac{16}{21}$$

$$\frac{415}{12} \quad 12 \quad \frac{9}{10} + 4 \quad \frac{2}{5} \cdot \frac{2}{2}$$

$$12 \quad \frac{9}{10} + 4 \quad \frac{4}{10}$$

$$16 \quad \frac{13}{10} = 17 \quad \frac{3}{10}$$

$$\begin{array}{r} + 17 \\ 4 \\ \hline 7 \\ 8 \\ 4 \\ \hline 7 \\ 8 \\ \hline 29 \\ \hline 13 \\ \hline 8 \\ \hline 29 \\ \hline 13 \\ \hline 29 \\ \hline 20 \\ \hline 8 \\ \hline 29 \\ \hline 20 \\ \hline 8 \\ \hline 20 \\ 8 \\ \hline 20 \\ \hline 8 \\ \hline 8 \\ \hline 20 \\ \hline 8 \\ \hline 8 \\ \hline 20 \\ \hline 8 \\ \hline 8$$

$$42 \frac{11}{15} \cdot \frac{4}{4} + 40 \cdot \frac{7}{12} \cdot \frac{5}{5}$$

$$42 \frac{44}{60} + 40 \cdot \frac{35}{60}$$

$$82 \frac{79}{60} = 83 \cdot \frac{19}{60}$$

$$#\frac{23}{35} \frac{5}{6} \cdot \frac{4}{4} + 15 \frac{1}{8} \cdot \frac{3}{3}$$

$$35 \frac{20}{24} + 15 \frac{3}{24} = 50 \frac{23}{24}$$

$$\frac{*25}{5}$$
 $21\frac{4}{5} + 18\frac{3}{5} + 6\frac{1}{5}$ $45\frac{8}{5} = 46\frac{3}{5}$

$$4\frac{29}{2} + 10 + \frac{6}{6} + 8 + \frac{1}{3} \cdot \frac{8}{8} + 7 \cdot \frac{3}{8} \cdot \frac{3}{3}$$

$$10 + 8 + 8 \cdot \frac{8}{24} + 7 \cdot \frac{9}{24}$$

$$25 \cdot \frac{23}{24}$$

$$\begin{array}{r} +18 \quad 3 \quad \frac{5}{8} \cdot \frac{3}{3} + 2 \quad \frac{7}{12} \cdot \frac{2}{2} \\ 3 \quad \frac{15}{24} + 2 \quad \frac{14}{24} \\ 5 \quad \frac{34}{24} = 6 \quad \frac{5}{24} \end{array}$$

#20 27
$$\frac{9}{10} \cdot \frac{9}{4} + 16 \cdot \frac{7}{45} \cdot \frac{2}{2}$$

$$27 \cdot \frac{81}{90} + 16 \cdot \frac{14}{90}$$

$$43 \cdot \frac{95}{90} = 44 \cdot \frac{5}{90} = 44 \cdot \frac{1}{19}$$

#22
$$9\frac{91}{100} + 3\frac{21}{25} \cdot \frac{4}{4}$$
 $9\frac{91}{100} + 3\frac{84}{100}$
 $13\frac{175}{100} = 13\frac{3}{4}$

$$\frac{424}{32} = 12 \frac{11}{32} + 4 \frac{15}{32} + 5 \frac{13}{32}$$

$$21 \frac{39}{32} = 22 \frac{7}{32}$$

*26
$$15\frac{13}{20} \cdot \frac{3}{3} + 6\frac{1}{3} \cdot \frac{3}{60} + 7\frac{2}{5} \cdot \frac{12}{12}$$

$$15\frac{39}{60} + 6\frac{30}{60} + 7\frac{24}{60}$$

$$28\frac{83}{60} = 29\frac{23}{60}$$

$$\frac{28}{19} \quad \frac{3}{10} \cdot \frac{8}{8} + 6 \cdot \frac{5}{9} \cdot \frac{10}{10} + 11 \cdot \frac{9}{16} \cdot \frac{5}{5}$$

$$19 \cdot \frac{24}{80} + 6 \cdot \frac{50}{80} + 11 \cdot \frac{45}{80}$$

$$36 \cdot \frac{119}{80} = 37 \cdot \frac{39}{80}$$

#1 4 = 2 = 2 = 2 =

SKILL 19

#2 36
$$\frac{5}{7}$$
 - 13 $\frac{2}{7}$ = 23 $\frac{3}{7}$

$$\frac{43}{2}$$
 21 $\frac{19}{3a}$ - 8 $\frac{15}{3a}$ = 13 $\frac{4}{3a}$ = 13 $\frac{1}{a}$

$$\frac{44}{2}$$
 $8\frac{3}{4} - 5\frac{1}{4} = 3\frac{2}{4} = 3\frac{1}{2}$

$$\stackrel{\#5}{=} 6\frac{3}{8} - 1\frac{3}{8} = 5\frac{4}{8} = 5\frac{1}{2}$$

$$\frac{46}{20} = 14\frac{13}{20} = 10\frac{7}{20} = 4\frac{6}{20}$$
$$= 4\frac{3}{10}$$

$$8\frac{3}{12} - 5\frac{1}{12} = 3\frac{5}{12}$$

$$\frac{10}{7} = \frac{1}{2} = \frac{5}{12} = \frac{5}{12}$$

$$\frac{10}{7} = \frac{6}{12} = \frac{5}{12}$$

$$\frac{1}{2} = \frac{1}{12}$$

$$\frac{114}{39} \quad \frac{9}{9} \cdot \frac{2}{2} - 30 \cdot \frac{5}{18}$$

$$39 \cdot \frac{16}{18} - 30 \cdot \frac{5}{18}$$

$$9 \cdot \frac{11}{18}$$

#15
$$16\frac{7}{8}$$
, $\frac{5}{5}$ - $12\frac{1}{5}$. $\frac{8}{8}$

$$16\frac{35}{40} - 12\frac{8}{40}$$

$$4\frac{27}{40}$$

$$\frac{417}{13} \quad \frac{14}{10} - \frac{3}{10} = \frac{3}{10}$$

$$\frac{3}{7} = \frac{7}{10}$$

$$\frac{419}{19} \quad 19 \quad \frac{5}{16} \quad -6 \quad \frac{5}{8} \cdot \frac{2}{2}$$

$$19 \quad \frac{5}{16} \quad -6 \quad \frac{10}{16}$$

$$18 \quad \frac{21}{16} \quad -6 \quad \frac{10}{16}$$

$$14 \quad \frac{11}{16}$$

*21 24
$$\frac{10}{12}$$
 - 10 $\frac{11}{12}$
24 $\frac{10}{12}$ - 10 $\frac{11}{12}$
23 $\frac{22}{12}$ - 10 $\frac{11}{12}$

$$\frac{5 \text{ KILL } 19}{416} = 9 \frac{11}{20} \cdot \frac{2}{2} - 7 \frac{3}{8} \cdot \frac{5}{5}$$

$$9 \frac{22}{40} - 7 \frac{15}{40}$$

$$2 \frac{7}{40}$$

$$\frac{*10}{2}$$
 6 - $2\frac{5}{8}$ 5 $\frac{8}{8}$ - $2\frac{5}{8}$ 3 $\frac{2}{8}$

#22
$$11\frac{3}{10}\frac{2}{3} - 7\frac{11}{15}\frac{2}{2}$$
 $11\frac{9}{30} - 7\frac{22}{30}$
 $10\frac{39}{30} - 7\frac{22}{30}$
 $3\frac{17}{30}$

$$\frac{42}{7} \times \frac{1}{9} = \frac{2}{63}$$

$$\frac{43}{11} \times \frac{3}{10} = \frac{3}{22}$$

$$\frac{43}{11} \times \frac{3}{10} = \frac{3}{22}$$
 $\frac{44}{1} \times \frac{3}{10} = \frac{6}{1} = 6$

$$\frac{45}{13} \times \frac{26}{1} = \frac{20}{1} = 20$$
 $\frac{46}{1} \times \frac{5}{9} = \frac{5}{36}$

$$\frac{1}{4} \times \frac{5}{9} = \frac{5}{36}$$

$$\frac{47}{2} \quad \frac{9}{12} \times \frac{9}{21} = \frac{1}{18} \qquad \frac{48}{2} \times \frac{5}{3} = \frac{5}{12}$$

$$\frac{40}{3}$$
 $\frac{5}{8}$ \times $\frac{2}{3}$ = $\frac{5}{12}$

$$\frac{1}{2} \times \frac{1}{13} = \frac{5}{13}$$

$$\frac{1}{2} \times \frac{10}{13} = \frac{5}{13}$$
 $\frac{10}{13} \times \frac{7}{13} = \frac{14}{13} = \frac{14}{1} = 14$

$$\frac{411}{24} \times \frac{5}{6} = \frac{20}{1} = 20$$
 $\frac{412}{20} = \frac{1}{3} \times \frac{9}{20} = \frac{3}{20}$

$$\frac{1}{3} \times \frac{3}{20} = \frac{3}{20}$$

$$\frac{413}{10} \times 7\frac{3}{5}$$
 $\frac{2}{10} \times \frac{38}{3} = 76$

$$\frac{2}{10} \times \frac{7\frac{3}{5}}{5} = \frac{14}{9} \times \frac{27}{10}$$

$$\frac{10}{10} \times \frac{38}{5} = 76$$

$$\frac{15}{9} \times \frac{27}{10} = \frac{3}{2} \text{ or } 1\frac{1}{2}$$

$$\frac{1}{5} \cdot \frac{1}{15}$$
 $\frac{1}{5} \times \frac{15^3}{1} = \frac{3}{1} = 3$

$$\frac{12}{5} \div \frac{1}{12}$$

$$\frac{5}{6} \times \frac{12}{1} = \frac{10}{1} = 10$$

$$\frac{43}{7} \times \frac{11}{6} = \frac{11}{14}$$

$$\frac{44}{2} \times \frac{8}{7} \times \frac{7}{4} = \frac{14}{1} = 14$$

$$\frac{5}{12} \times \frac{4}{9} = \frac{25}{54}$$

$$\frac{48}{9} = \frac{5}{9} \div 10$$
 $\frac{15}{9} \times \frac{1}{10} = \frac{1}{18}$

$$\frac{149}{8} \div \frac{5}{7}$$
 $\frac{3}{8} \times \frac{7}{5} = \frac{21}{40}$

#10
$$2\frac{4}{7} \div \frac{3}{4}$$

 $\frac{18}{7} \times \frac{4}{3} = \frac{24}{7} \text{ on } 3\frac{3}{7}$

$$\frac{411}{19} \cdot \frac{1}{19} \cdot \frac{1}{2}$$

$$\frac{30}{19} \cdot \frac{15}{2}$$

$$\frac{30}{19} \times \frac{2}{15} = \frac{4}{19}$$

#12 35
$$\div \frac{7}{10}$$
5 35 $\times \frac{10}{3} = \frac{50}{1} = 50$