MATH 0370

01/28/2019

improper to mix:

67) $\frac{37}{8} = 4\frac{5}{8}$

73) $\frac{52}{9} = 5\frac{7}{9}$

$$9\overline{)\begin{array}{r}5\\52\\45\\\hline 7\end{array}}$$

75) $\frac{133}{11} = 12\frac{1}{11}$

$$11\overline{)\begin{array}{r}12\\133\\132\\\hline 1\end{array}}$$

74) $\frac{67}{12} = 5\frac{7}{12}$

$$12\overline{)\begin{array}{r}5\\67\\60\\\hline 7\end{array}}$$

82) $\frac{7213}{8} = 901\frac{5}{8}$

$$8\overline{)\begin{array}{r}901\\7213\\7208\\\hline 5\end{array}}$$

Mix to improper:

$$n\frac{p}{q} = \frac{nq+p}{q}$$

* $4\frac{5}{8} = \frac{4(8)+5}{8} = \frac{37}{8}$

* $5\frac{7}{9} = \frac{5(9)+7}{9} = \frac{52}{9}$

57) $11\frac{5}{12} = \frac{11(12)+5}{12} = \frac{132+5}{12} = \frac{137}{12}$

59) $21\frac{3}{8} = \frac{21(8)+3}{8} = \frac{168+3}{8} = \frac{171}{8}$

87) $\frac{3}{4}$

89) $\frac{1}{5}$

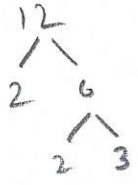
91) $\frac{5}{3} = 1\frac{2}{3}$

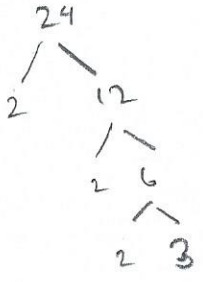
93) $\frac{7}{6} = 1\frac{1}{6}$

95) $\frac{16}{7} = 2\frac{2}{7}$

71) $\frac{12}{24} = \frac{2 \times 2 \times 3}{2 \times 2 \times 2 \times 3}$

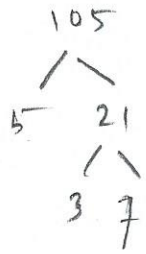
$= \frac{1}{2}$

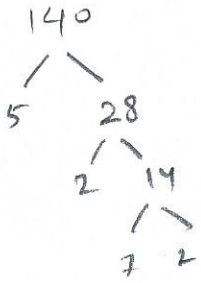




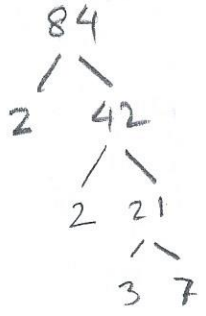
81) $\frac{105}{140} = \frac{3 \times 5 \times 7}{2 \times 2 \times 5 \times 7}$

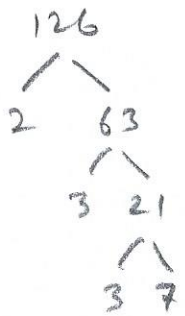
$= \frac{3}{4}$



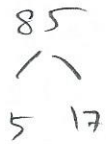


82) $\frac{84}{126} = \frac{2 \times 2 \times 3 \times 7}{2 \times 3 \times 3 \times 7} = \frac{2}{3}$





89) $\frac{34}{85} = \frac{2 \times 17}{5 \times 17} = \frac{2}{5}$



99) $\frac{16ab}{10a} = \frac{2 \cdot 2 \cdot 2 \cdot 2 \cdot a \cdot b}{2 \cdot 5 \cdot a} = \frac{8b}{5}$

105) $\frac{6ac^2}{12a^2c^4} = \frac{2 \cdot 3 \cdot a \cdot c \cdot c}{2 \cdot 2 \cdot 3 \cdot a \cdot a \cdot c \cdot c \cdot c \cdot c} = \frac{1}{2c^2}$

Practice Test

18) $\frac{48}{84} = \frac{2 \cdot 2 \cdot 2 \cdot 2 \cdot 3}{2 \cdot 2 \cdot 3 \cdot 7} = \frac{4}{7}$

19) $\frac{57}{78} = \frac{3 \cdot 19}{2 \cdot 3 \cdot 13} = \frac{19}{26}$

20) $\frac{112}{128} = \frac{2 \cdot 2 \cdot 2 \cdot 2 \cdot 7}{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2} = \frac{7}{8}$