Pretest

If a student misses more than 1 problem in a level, take the competency exam for that level. For example, if a student misses 2 problems in the Gamma level, take the Gamma Competency Exam.

Alpha

$\begin{array}{r} 7 \\ +\ 5 \\ \hline \end{array}$ $\begin{array}{r} 8 \\ +\ 6 \\ \hline \end{array}$ $\begin{array}{r} 13 \\ -\ 8 \\ \hline \end{array}$ $\begin{array}{r} 7 \\ -\ 3 \\ \hline \end{array}$ $9 + 7 =$ _____

$12 - 5 =$ _____

Beta

$\begin{array}{r} 34 \\ +\ 57 \\ \hline \end{array}$ $\begin{array}{r} 426 \\ +\ 108 \\ \hline \end{array}$ $\begin{array}{r} 304 \\ -\ 98 \\ \hline \end{array}$ $\begin{array}{r} 83 \\ -\ 67 \\ \hline \end{array}$ $79 + 251 =$ _____

$100 - 49 =$ _____

Gamma

$\begin{array}{r} 4 \\ \times\ 6 \\ \hline \end{array}$ $\begin{array}{r} 6 \\ \times\ 9 \\ \hline \end{array}$ $8 \times 7 =$ _____ $\begin{array}{r} 59 \\ \times\ 13 \\ \hline \end{array}$ $\begin{array}{r} 142 \\ \times\ 67 \\ \hline \end{array}$ $\begin{array}{r} 83 \\ \times\ 96 \\ \hline \end{array}$

Delta

$48 \div 8 =$ ___ $\frac{72}{9} =$ ___ $7\overline{)42}$ $7\overline{)251}$ $23\overline{)1{,}068}$ $37\overline{)2{,}555}$

Epsilon

$\frac{2}{3} \times \frac{4}{7} =$ ___ $\frac{3}{5} + \frac{6}{11} =$ ___ $\frac{5}{8} \div \frac{1}{4} =$ ___ $\frac{3}{4} - \frac{2}{9} =$ ___

$2\frac{1}{3} + 1\frac{2}{5} =$ ____ $10\frac{3}{4} - 7\frac{7}{9} =$ ____ $4\frac{1}{6} \times 11\frac{3}{7} =$ ____ $3\frac{4}{5} \div 1\frac{1}{2} =$ ____

Zeta

$\begin{array}{r} 15.78 \\ +\ 6.49 \\ \hline \end{array}$ $\begin{array}{r} 206.3 \\ -\ 18.17 \\ \hline \end{array}$ $\begin{array}{r} 89 \\ \times\ .7 \\ \hline \end{array}$ $\begin{array}{r} 2.64 \\ \times\ .39 \\ \hline \end{array}$ $.07\overline{)59}$ $2.5\overline{)1.06}$ $8\overline{).42}$

Solutions

Alpha

$$\begin{array}{r} 7 \\ +\ 5 \\ \hline 12 \end{array} \qquad \begin{array}{r} 8 \\ +\ 6 \\ \hline 14 \end{array} \qquad \begin{array}{r} 13 \\ -\ 8 \\ \hline 5 \end{array} \qquad \begin{array}{r} 7 \\ -\ 3 \\ \hline 4 \end{array}$$

9 + 7 = 16

12 - 5 = 7

Beta

$$\begin{array}{r} 34 \\ +\ 57 \\ \hline 91 \end{array} \qquad \begin{array}{r} 426 \\ +\ 108 \\ \hline 534 \end{array} \qquad \begin{array}{r} 304 \\ -\ 98 \\ \hline 206 \end{array} \qquad \begin{array}{r} 83 \\ -\ 67 \\ \hline 16 \end{array}$$

79 + 251 = 330

100 - 49 = 51

Gamma

$$\begin{array}{r} 4 \\ \times\ 6 \\ \hline 24 \end{array} \qquad \begin{array}{r} 6 \\ \times\ 9 \\ \hline 54 \end{array}$$

8 x 7 = 56

$$\begin{array}{r} 59 \\ \times\ 13 \\ \hline 767 \end{array} \qquad \begin{array}{r} 142 \\ \times\ 67 \\ \hline 9514 \end{array} \qquad \begin{array}{r} 83 \\ \times\ 96 \\ \hline 7968 \end{array}$$

Delta

48 ÷ 8 = 6

$\frac{72}{9} = 8$

$7\overline{)42} = 6$

$7\overline{)251} = 35\text{ r }6$

$23\overline{)1{,}068} = 46\text{ r }10$

$37\overline{)2{,}555} = 69\text{ r }2$

Epsilon

$\frac{2}{3} \times \frac{4}{7} = \frac{8}{21}$

$\frac{3}{5} + \frac{6}{11} = \frac{63}{55}$

$\frac{5}{8} \div \frac{1}{4} = 2\frac{1}{2}$

$\frac{3}{4} - \frac{2}{9} = \frac{19}{36}$

$2\frac{1}{3} + 1\frac{2}{5} = 3\frac{11}{15}$

$10\frac{3}{4} - 7\frac{7}{9} = 2\frac{35}{36}$

$4\frac{1}{6} \times 11\frac{3}{7} = 47\frac{13}{21}$

$3\frac{4}{5} \div 1\frac{1}{2} = 2\frac{8}{15}$

Zeta

$$\begin{array}{r} 15.78 \\ +\ 6.49 \\ \hline 22.27 \end{array} \qquad \begin{array}{r} 206.3 \\ -\ 18.17 \\ \hline 188.13 \end{array} \qquad \begin{array}{r} 89 \\ \times\ .7 \\ \hline 62.3 \end{array} \qquad \begin{array}{r} 2.64 \\ \times\ .39 \\ \hline 1.0296 \end{array}$$

$.07\overline{)59} = 842.86$

$2.5\overline{)1.06} = .424$

$8\overline{).42} = .0525$