

2-6-14
1st Geo

Means Extremes
Cross Product

$$\frac{3}{6} = \frac{1}{2} \quad \frac{4}{6} = \frac{2}{3}$$

$$\frac{n}{6} = \frac{6}{9}$$

$$\frac{9n}{9} = \frac{36}{9}$$

$$n = 4$$

$$\frac{n}{4} = \frac{6}{8}$$

$$8n = 24$$

$$n = 3$$

$$\frac{6}{n} = \frac{3}{4}$$

$$3n = 24$$

$$n = 8$$

$$\frac{n}{5} = \frac{6}{9}$$

$$\frac{n}{5} = \frac{30}{9}$$

$$n = 3 \frac{3}{9} = 3 \frac{1}{3}$$

$$9 \overline{) 30} \begin{array}{r} 3 \\ -27 \\ \hline 3 \end{array} \text{left over}$$

$$\frac{11}{5} \quad \begin{array}{|c|c|c|} \hline |||| \\ \hline \end{array} \begin{array}{|c|c|c|} \hline |||| \\ \hline \end{array} \begin{array}{|c|c|c|} \hline \dots \\ \hline \end{array} \quad 2 \frac{1}{5} \quad \begin{array}{r} 2 \frac{1}{5} \\ 11 \\ -10 \\ \hline 1 \end{array}$$

$$\frac{16}{5} = 3 \frac{1}{5}$$

$$5 \overline{) 16} \begin{array}{r} 3 \\ -15 \\ \hline 1 \end{array}$$

$$\frac{n+2}{3} = \frac{5}{2}$$

$$2(n+2) = 15$$

$$\begin{array}{r} 2n+4 = 15 \\ -4 \quad -4 \\ \hline \end{array}$$

$$\frac{2n}{2} = \frac{11}{2}$$

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

$$\frac{n+4}{2} = \frac{n+1}{3}$$

$$3(n+4) = 2(n+1)$$

$$\begin{array}{r} 3n+12 = 2n+2 \\ -2n \quad -2n \\ \hline \end{array}$$

$$\frac{n+12}{-12} = \frac{2}{-12}$$

$$n = -10$$

$$\frac{3n}{5} = \frac{3}{4}$$

$$\frac{12n}{12} = \frac{15}{12}$$

$$n = 1\frac{3}{4} = 1\frac{1}{4}$$