

$$\textcircled{1} \quad 3.5 + 2.75 * (6.2 - 4.8) / 1.5 - 0.75 = 5.3166 \quad 3.5000$$

$$= 3.5 + 2.75 * 1.4 / 1.5 - 0.75$$

$$= 3.5 + 3.850 \div 1.5 - 0.75$$

$$= 3.5 + 2.5666 - 0.75$$

$$= 6.066\overline{6} - 0.75$$

$$= 5.316\overline{6}$$

✓

$$15 \overline{)385.0000\dots} \quad \begin{array}{r} 25.666\dots \\ \hline 385 \\ 30 \\ \hline 85 \\ 75 \\ \hline 100 \\ 100 \end{array}$$

$$\begin{array}{r} 275 \\ \times 14 \\ \hline 1100 \\ 2750 \\ \hline 3850 \end{array} \quad + 2.5666 \quad 6.066\overline{6}$$

$$\begin{array}{r} 2.75 \\ \times 14 \\ \hline 100 \\ 275 \\ \hline 3850 \end{array} \quad = \frac{275 \times 14}{100} = \underline{3850}$$

$$\begin{array}{r} 6.0666 \\ - 0.75 \\ \hline 5.3166 \\ 3.850 \div 1.5 \end{array} \quad = \underline{3.850}$$

$$= 3850 \div 15$$

$$= \frac{3850}{15} \times \frac{100}{100} \quad \begin{array}{r} 1000 \\ \hline 10 \\ 100 \end{array}$$

$$= \frac{385}{15} \times \frac{100}{1000} \times \frac{100}{15} = \frac{25.6666 \times 100}{1000} = \underline{\underline{2566.666}} \%$$

$$= 2566.666 \% \div 1000 - 2.56666$$

$$\begin{aligned}
 ② \quad & 5.25 / [1.25 + 0.75 * (2.4 - 1.6)]^2 \\
 & = 5.25 / [1.25 + 0.75 * 0.8]^2 \\
 & = 5.25 / [1.25 + 0.6]^2 \\
 & = 5.25 : \\
 & = 5.25 : \\
 & = 5.25 : \\
 & = \frac{525}{100} \\
 & = \frac{525}{100} \\
 & = 5.25
 \end{aligned}$$

?

$$\begin{aligned}
 & 1 \\
 & 2.4 \\
 & -1.6 \\
 & \overline{0.8} \\
 & \begin{array}{r} 4 \\ + 75 \\ \hline 800 \end{array} \\
 & 0.75 \times 0.8 \\
 & = \frac{75}{100} \times \frac{8}{10} \\
 & = \frac{600}{1000} \\
 & = 0.600
 \end{aligned}$$

$$\begin{aligned}
 ③ & 0.125 * [8.4 - 2 * (3.15 + 1.2)] + 4.5 \\
 & = 0.125 * [8.4 - 2 * 4.35] + 4.5 \\
 & = 0.125 * [8.4 - 8.7] + 4.5 \\
 & = 0.125 * -0.3 + 4.5 \\
 & = -0.0375 + 4.5 \\
 & = 4.5 - 0.0375 \\
 & = 4.4625
 \end{aligned}$$

$$\begin{aligned}
 & 3.15 \quad 8.7 \\
 & -8.4 \\
 & \hline
 & 4.35 \quad 0.3 \\
 & \hline
 & 0.025 \quad 2 \\
 & +4.5 \\
 & \hline
 & 4.5125 \quad 4.25 \times 2.0 \\
 & \hline
 & 4.5000 \quad = 425 \quad 2 \\
 & 0.0375 \\
 & \hline
 & 4.4625 \quad 100 \quad \times 1 \\
 & \hline
 & = 850 \\
 & \hline
 & = 8.5 \quad \frac{125}{3} \\
 & \hline
 & = 375
 \end{aligned}$$

$$\begin{aligned}
 & + 0.125 \times 0.3 \\
 & = -\frac{125}{1000} \times \frac{3}{10} \\
 & = -\frac{375}{10000} = 0.0375
 \end{aligned}$$

$$\begin{aligned}
 ④ & 6.75 - 2.25 * \left\{ 3.5 / [1.75 + 0.25 * (4.8 - 3.2)] \right\} \\
 = & 6.75 - 2.25 * \left\{ 3.5 / [1.75 + 0.25 * 1.6] \right\} \\
 = & 6.75 - 2.25 * \left\{ 3.5 / [1.75 + 0.400] \right\} \\
 = & 6.75 - 2.25 * \left\{ 3.5 / 2.15 \right\} \\
 = & 6.75 - 2.25 * 1.627\dots \\
 = & 6.75 - 3.66075 \\
 = & 3.08925
 \end{aligned}$$

4.8
 3.2
 1.6
 0.2516
 $\frac{0.25}{100} + \frac{16}{10}$
 $\frac{25}{100} + \frac{16}{10}$
 0.400
 1.750
 0.400
 $\frac{3.5}{10} - \frac{2.15}{5}$
 $\frac{35}{100} - \frac{215}{500}$
 $\frac{35}{100} \times \frac{100}{215} = \frac{3500}{2150}$
 250
 150
 400

↓ approx.
 ↓ approx.
 ↓ approx.

Python gives a
 different answer
 because it uses 16
 decimal places after decimal
 point, while used only 3.

$$\begin{array}{r}
 6.75000 \\
 - 3.66075 \\
 \hline
 3.08925
 \end{array}$$

$$\begin{array}{r}
 150 \\
 \times 2 \\
 \hline
 4300
 \end{array}$$

$$\begin{array}{r}
 25 \\
 \times 16 \\
 \hline
 150 \\
 250 \\
 \hline
 400
 \end{array}$$

$$\begin{aligned}
 & \textcircled{5} \quad 12.5 \mid \{ 2.5 + [3.75 * (5.6 - 4.4) - 1.5] / 12 \} \quad 5.6 \\
 & = 12.5 \div \{ 2.5 + [3.75 * 1.2 - 1.5] / 12 \} \quad 4.4 \\
 & = 12.5 \div \{ 2.5 + [4.5 - 1.5] / 12 \} \quad 3.75 \\
 & = 12.5 \div \{ 2.5 + [3.0] / 12 \} \quad 1.2 \\
 & = 12.5 \div \{ 2.5 + 0.25 \} \quad 750 \\
 & = 12.5 \div 2.75 \quad 3750 \\
 & = 12.5 \div 11.5 \quad 4500 \\
 & = 1.086 \dots
 \end{aligned}$$

✓

$$\begin{array}{r}
 1.086 \\
 \hline
 1150 \overline{) 1250.000} \\
 -1150 \\
 \hline
 1000 \\
 -1000 \\
 \hline
 0
 \end{array}
 \quad
 \begin{array}{r}
 4.5 \\
 \hline
 3.0 \\
 -3.0 \\
 \hline
 0
 \end{array}
 \quad
 \begin{array}{r}
 9.0 \\
 \hline
 2.5 \\
 +2.5 \\
 \hline
 0
 \end{array}$$

$$\begin{array}{r}
 12.5 \div 11.5 \\
 = \frac{125}{10} \div \frac{115}{10} \\
 = \frac{125}{10} \times \frac{10}{115} \\
 = \frac{125}{115} \\
 = \frac{1250}{1150} \\
 = \frac{1250}{1150} \times \frac{6}{6} \\
 = \frac{7500}{6900}
 \end{array}$$

$$\begin{array}{r}
 1450 \\
 \times 9 \\
 \hline
 13150
 \end{array}
 \quad
 \begin{array}{r}
 10350 \\
 \hline
 14 \\
 +14 \\
 \hline
 28
 \end{array}$$