

$$\left[ \left(1 - \frac{1}{3}\right)^2 \cdot \frac{15}{7} - \frac{1}{5} \cdot \frac{7}{3} + \frac{17}{15} \right] \cdot x = \left( \frac{2}{3} - \frac{4}{9} \right) \cdot \left( \frac{5}{9} \cdot \frac{3}{4} - \frac{4}{33} \right)$$

$$\left[ \left(\frac{3-1}{3}\right)^2 \cdot \frac{15}{7} - \frac{1}{5} \cdot \frac{7}{3} + \frac{17}{15} \right] \cdot x = \left( \frac{6-4}{9} \right) \cdot \left( \frac{5}{9} \cdot \frac{4}{3} - \frac{4}{33} \right)$$

$$\left[ \left(\frac{2}{3}\right)^2 \cdot \frac{15}{7} - \frac{7}{35} + \frac{17}{15} \right] \cdot x = \frac{2}{9} \cdot \left( \frac{20}{27} - \frac{4}{27} \right)$$

$$\left[ \frac{4}{9} \cdot \frac{15}{7} - \frac{7}{35} + \frac{17}{15} \right] \cdot x = \frac{2}{9} \cdot \left( \frac{20-4}{27} \right)$$

$$\left[ \frac{20}{21} - \frac{7}{35} + \frac{17}{15} \right] \cdot x = \frac{2}{9} \cdot \frac{16}{27}$$

$$\left[ \frac{100 - 9 + 119}{105} \right] \cdot x = \frac{2}{9} \cdot \frac{16}{27}$$

$$\frac{210}{105} \cdot x = \frac{2}{9} \cdot \frac{16}{27}$$

$$\frac{2}{1} : X = \frac{2}{5} : \frac{16}{27}$$

$$X = \frac{\frac{2}{1} \cdot \frac{16}{27}}{\frac{2}{5}} = \frac{\overset{1}{\cancel{2}} \cdot \frac{16}{\overset{1}{\cancel{27}}}}{\overset{1}{\cancel{2}} \cdot \frac{1}{\overset{1}{\cancel{5}}}} = \frac{16}{3}$$

$$\begin{aligned} 21 &= 3 \cdot 7 \\ 35 &= 5 \cdot 7 \\ 15 &= 3 \cdot 5 \end{aligned}$$

$$(2 - \frac{17}{10}) \cdot \left[ \frac{3}{4} \cdot \left( \frac{1}{5} + \frac{5}{6} - \frac{4}{15} \right) + \frac{1}{10} \right] = x \cdot \left[ \frac{9}{8} + \frac{1}{9} \cdot \left( \frac{2}{9} \right)^2 \right]$$

$$\left( \frac{20-17}{10} \right) \cdot \left[ \frac{3}{4} \cdot \left( \frac{6+25-8}{30} \right) + \frac{1}{10} \right] = x \cdot \left[ \frac{9}{8} + \frac{1}{9} \cdot \frac{4}{81} \right]$$

$$\frac{3}{10} \cdot \left[ \frac{3}{4} \cdot \frac{23}{30} + \frac{1}{10} \right] = x \cdot \left[ \frac{9}{8} + \frac{1}{9} \cdot \frac{4}{81} \right]$$

$$\frac{3}{10} \cdot \left[ \frac{23}{40} + \frac{1}{10} \right] = x \cdot \left[ \frac{9}{8} + \frac{4}{729} \right]$$

$$\frac{3}{10} \cdot \left[ \frac{23+4}{40} \right] = x \cdot \left[ \frac{9}{8} + \frac{4}{729} \right]$$

$$\frac{3}{10} \cdot \frac{27}{40} = x \cdot \frac{27}{729}$$

$$x = \frac{3}{10} \cdot \frac{27}{8} = \frac{3}{\cancel{10}^2} \cdot \frac{27}{8} \cdot \frac{5^1}{40^1} = \frac{3}{2} \cdot \frac{27}{8} \cdot \frac{5}{40} = \frac{3}{2} \cdot \frac{27}{8} \cdot \frac{5}{2^3 \cdot 5} = \frac{3}{2} \cdot \frac{27}{8} \cdot \frac{1}{2^3} = \frac{3}{2} \cdot \frac{27}{2^6} = \frac{3 \cdot 27}{2^7} = \frac{81}{128}$$

$$\left[ \left(\frac{1}{3}\right)^2 : \left(2 - \frac{7}{6}\right)^2 : \left(\frac{1}{5}\right)^2 \right] : x = \left[ \left(1 + \frac{1}{2}\right)^2 - \frac{1}{2} \right] : \left\{ \left(\frac{1}{4}\right)^2 : \left[\left(\frac{2}{5} - \frac{1}{3}\right) : \frac{4}{15}\right] \right\}$$

$$\left[ \frac{1}{9} : \left(\frac{12-7}{6}\right)^2 : \frac{1}{25} \right] : x = \left[ \left(\frac{2+1}{2}\right)^2 - \frac{1}{2} \right] : \left\{ \frac{1}{16} : \left[\left(\frac{6-5}{15}\right) : \frac{4}{15}\right] \right\}$$

$$\left[ \frac{1}{9} : \left(\frac{5}{6}\right)^2 : \frac{1}{25} \right] : x = \left[ \left(\frac{3}{2}\right)^2 - \frac{1}{2} \right] : \left\{ \frac{1}{16} : \left[\frac{1}{15} : \frac{4}{15}\right] \right\}$$

$$\left[ \frac{1}{9} : \frac{25}{25} : \frac{25}{1} \right] : x = \left[ \frac{9}{4} - \frac{1}{2} \right] : \left\{ \frac{1}{16} : 4 \right\}$$

$$\frac{4}{7} : x = \left[ \frac{9-2}{4} \right] : \frac{1}{4}$$

$$\frac{4}{7} : x = \frac{7}{4} : \frac{1}{4} \quad x = \frac{4 \cdot \frac{1}{4}}{\frac{7}{4}} = 1 \cdot \frac{4}{7} = \frac{4}{7}$$