

Calcolo base del termine incognito di una proporzione. Con soluzioni guidate.
Arithmetic - Ratio & Proportion Solved Exercises (start here)

1. $\left(1 - \frac{9}{10}\right) : \left(1 + \frac{1}{3}\right) = x : \frac{5}{6}$ 1/16
[soluzione](#)
2. $\left(\frac{1}{3} + \frac{1}{6}\right) : \left(1 + \frac{1}{10}\right) = x : \frac{11}{6}$ 5/6
[soluzione](#)
3. $\left(1 - \frac{1}{5}\right) : x = \left(\frac{3}{5} + \frac{1}{2}\right) : \left(1 - \frac{1}{12}\right)$ 2/3
[soluzione](#)
4. $\left(1 - \frac{2}{3}\right) : x = \left(1 + \frac{1}{4}\right) : \left(1 - \frac{2}{5}\right)$ 4/25
[soluzione](#)
5. $\left(6 + \frac{2}{5}\right) : x = \left(1 - \frac{1}{2}\right) : \left(3 - \frac{1}{2}\right)$ 32
[soluzione](#)
6. $\left(2 + \frac{1}{3}\right) : x = \left(\frac{3}{4} + \frac{1}{2}\right) : \left(1 - \frac{4}{7}\right)$ 4/5
[soluzione](#)
7. $x : \left(\frac{3}{4} + \frac{5}{4}\right) = \left(3 + \frac{1}{3}\right) : \left(1 + \frac{3}{2}\right)$ 8/3
[soluzione](#)
8. $\left(8 - \frac{16}{5}\right) : \left(4 - \frac{8}{3}\right) = \left(4 - \frac{8}{11}\right) : x$ 10/11
[soluzione](#)
9. $x : \left(1 - \frac{1}{4}\right) = \left(2 + \frac{2}{3}\right) : \left(1 + \frac{1}{8}\right)$ 16/9
[soluzione](#)
10. $x : \left(\frac{1}{8} + \frac{1}{9}\right) = \left(\frac{1}{3} + \frac{7}{6}\right) : \left(\frac{3}{10} - \frac{8}{30}\right)$ 85/8
[soluzione](#)
11. $\left(\frac{3}{2} - \frac{1}{6}\right) : x = \left(1 + \frac{3}{2}\right) : \left(3 - \frac{1}{2}\right)$ 4/3
[soluzione](#)
12. $x : \left(\frac{1}{8} + \frac{1}{9}\right) = \left(\frac{1}{3} + \frac{7}{6}\right) : \left(\frac{3}{10} + \frac{8}{30}\right)$ 5/8
[soluzione](#)
13. $\left(\frac{10}{7} \cdot \frac{3}{8} - \frac{2}{7}\right) : x = \left(\frac{5}{6} + \frac{1}{4}\right) : \left(\frac{2}{3} - \frac{1}{8}\right)$ 1/8
[soluzione](#)
14. $\left(\frac{1}{3} + \frac{7}{14} \cdot \frac{8}{5} - \frac{1}{15}\right) : \left(1 + \frac{1}{3}\right) = \left(5 + \frac{1}{3}\right) : x$ 20/3
[soluzione](#)

15. $\left(1 - \frac{2}{5} + \frac{1}{7} \cdot \frac{7}{5}\right) : \left(1 - \frac{2}{5} + \frac{1}{2}\right) = \left(2 + \frac{2}{5}\right) : x$ 33/10
[soluzione](#)
16. $x : \left[2 + \frac{1}{2} - \left(1 - \frac{1}{2}\right)^2\right] = \left(1 - \frac{1}{8}\right) : \left(1 + \frac{1}{2} - \frac{2}{7} \cdot \frac{21}{16}\right)$ 7/4
[soluzione](#)
17. $1 : \left(1 - \frac{4}{5} \cdot \frac{5}{34}\right) = \left[\frac{1}{3} - \left(1 - \frac{1}{2}\right)^2 + \frac{1}{5}\right] : x$ 1/4
[soluzione](#)
18. $\left(\frac{3}{4} + \frac{1}{3} : 2\right) : 10 = \left[2 + \left(1 - \frac{1}{2}\right)^3 : \left(1 - \frac{3}{8}\right)\right] : x$ 24
[soluzione](#)
19. $\left(\frac{1}{3} + \frac{7}{14} \cdot \frac{8}{5} - \frac{1}{15}\right) : \left(1 + \frac{1}{3}\right) = \left(5 + \frac{1}{3}\right) : x$ 20/3
[soluzione](#)
20. $x : \left[2 + \frac{1}{2} - \left(1 - \frac{1}{2}\right)^2\right] = \left(1 - \frac{1}{8}\right) : \left(1 + \frac{1}{2} - \frac{2}{7} \cdot \frac{21}{16}\right)$ 7/4
[soluzione](#)
21. $1 : \left(1 - \frac{4}{5} \cdot \frac{5}{34}\right) = \left[\frac{1}{3} - \left(1 - \frac{1}{2}\right)^2 + \frac{1}{5}\right] : x$ 7/2
[soluzione](#)
22. $x : \left(3 - \frac{9}{8} - \frac{3}{4}\right) = \left(2 + \frac{1}{2} - \frac{5}{3}\right) : \left(2 + \frac{1}{2} - \frac{5}{4}\right)$ 3/4
[soluzione](#)
23. $\left(\frac{5}{4} - \frac{2}{3} \div \frac{5}{6} + \frac{1}{2}\right) : \left[\left(\frac{2}{5} + \frac{1}{4}\right) \cdot \left(\frac{10}{13} + \frac{1}{2}\right)\right] = x : \left(\frac{1}{3} + \frac{3}{4} - \frac{1}{6}\right)$ 19/18
[soluzione](#)
24. $\left(\frac{12}{9} + \frac{3}{10} - \frac{42}{90}\right) : \left(\frac{29}{9} - \frac{25}{9}\right) = x : \left(\frac{1}{5} + \frac{6}{10}\right)$ 21/10
[soluzione](#)
25. $\left(\frac{38}{15} \cdot \frac{1}{2} + \frac{13}{10}\right) : x = 1 : \left(\frac{3}{11} - \frac{1}{7}\right)$ 1/3
[soluzione](#)
26. $\left(1 + \frac{1}{3}\right) : x = \left[\left(\frac{9}{10} - \frac{3}{5}\right) : \left(1 - \frac{2}{5}\right)\right] : \frac{21}{16}$ 7/2
[soluzione](#)
27. $\left[\left(\frac{1}{3}\right)^2 : \left(\frac{1}{6}\right)^2\right] : x = \left[\left(\frac{3}{2}\right)^2 - \left(1 - \frac{1}{2}\right)\right] : \left[\left(\frac{1}{2}\right)^4 : \left(\frac{1}{15} : \frac{4}{15}\right)\right]$ 4/7
[soluzione](#)
28. $x : \left(\frac{1}{4} \cdot \frac{5}{2} - \frac{3}{2} \cdot \frac{1}{4}\right) = \left(\frac{6}{3} \cdot \frac{5}{4} + 1\right) : \left(\frac{6}{10} \cdot \frac{5}{2} + 1\right)$ 7/20
[soluzione](#)

29. $\left[\left(1-\frac{1}{6}\right)-\frac{3}{4}:\frac{9}{4}\right]:\left[\left(1+\frac{1}{4}\right)-\left(\frac{1}{5}+\frac{1}{2}\right)\cdot\frac{1}{7}:\frac{2}{5}\right]=x:\left(2-\frac{5}{3}\right)$ 1/6
[soluzione](#)
30. $\left[\left(1-\frac{2}{3}\right):\frac{5}{6}\right]:\left[\left(1+\frac{1}{5}\right)\cdot\left(\frac{5}{4}-\frac{7}{6}\right)\right]=x:\left[\left(1-\frac{11}{13}\right)\cdot\left(\frac{3}{4}+\frac{5}{2}\right)\right]$ 2
[soluzione](#)
31. $\left\{1-\left[1-\left(\frac{1}{3}+\frac{1}{6}\right)\right]\right\}^2:x=\left(\frac{4}{5}\right)^2:\left[2-\left(\frac{1}{2}+\frac{7}{10}\right)\div 3\right]^2$ 1
[soluzione](#)
32. $\left\{\frac{10}{27}\cdot\left(1-\frac{19}{25}\right)\right\}:\left[\left(\frac{1}{5}+1\right)\cdot\frac{1}{9}\right]:(1+\frac{1}{15})=\left(1-\frac{1}{4}\right)^2:x$ 9/10
[soluzione](#)
33. $\left[\frac{1}{2}+1:\left(1+\frac{1}{3}\right)\right]:\left(1+\frac{5}{4}\right)=\left[1+\left(1-\frac{1}{2}\right)\cdot\left(1-\frac{1}{2}\right)\right]:x$ 9/4
[soluzione](#)
34. $\left(3-\frac{2}{3}\right):\frac{49}{3}=x:\left[\frac{1}{4}\cdot\left(2+\frac{1}{3}\right)\right]$ 1/12
[soluzione](#)
35. $\left[\left(\frac{1}{2}\right)^3:\left(\frac{1}{2}\right)^2+1\right]:\left[1-\left(\frac{2}{3}\right)^2:\frac{2}{3}\right]=x:\left[1+\left(\frac{1}{2}\right)^4:\left(\frac{1}{2}\right)^3\right]$ 27/4
[soluzione](#)
36. $\left(\frac{1}{4}:\frac{1}{9}-\frac{4}{3}:\frac{2}{3}\right):\left(\frac{1}{14}:\frac{1}{2}-\frac{3}{28}\right)=x:\left[\frac{19}{15}-\frac{2}{5}:\frac{3}{7}\right]$ 14/5
[soluzione](#)
37. $(1,\bar{3}+0,3-0,4\bar{6}): (3,\bar{2}-2,\bar{7})=x:(0,2+0,6)$ 4/3
[soluzione](#)
38. $(1,(1)-0,(3)):0,75=x:\left(2+\frac{2}{7}\right)$ $1,(1)=1,\bar{1}$ 4/3
[soluzione](#)
39. $\left(0,2+0,08+\frac{7}{25}\right):\left(0,0(5)+\frac{32}{27}+\frac{59}{54}\right)=x:(2,5+0,8(3))$ 4/5
[soluzione](#)
40. $(1,2(6)+1,3):x=1:\left(0,(27)-\frac{1}{7}\right)$ 1/3
[soluzione](#)
41. $\sqrt{\frac{3}{14}:\frac{9}{28}+\frac{10}{9}}:x=\frac{\frac{4}{5}-\frac{1}{2}}{\sqrt{\frac{21}{50}:\frac{7}{6}}}: \left(1+\frac{5}{2^4}\right)$ 9/10
[soluzione](#)
42. $\frac{\frac{1}{4}+\frac{1}{3}+\frac{2}{5}}{\frac{1}{4}+\frac{1}{3}\cdot\frac{2}{5}}:\frac{\frac{1}{4}\cdot\frac{1}{3}+\frac{2}{5}}{\frac{1}{4}+\frac{1}{3}-\frac{2}{5}}=\frac{5+\frac{9}{10}}{\frac{4}{5}+\frac{3}{2}}:x$ 29/11
[soluzione](#)

43.

$$\frac{\frac{6}{5} - \frac{10}{9}}{\left(\frac{5}{4} + \frac{1}{20}\right) \cdot \frac{1}{9}} : \frac{16}{15} = \left(\frac{5}{6} - \frac{1}{12}\right)^2 : x$$

9/10

[soluzione](#)

44.

$$x : \frac{\left(1 - \frac{5}{6}\right) : \frac{7}{3}}{\frac{5}{9} \cdot \left(1 - \frac{7}{10}\right)} = \frac{\frac{7}{6} + \frac{5}{3} - \frac{1}{2}}{\left(\frac{11}{12} + \frac{1}{3}\right) - \frac{1}{4}} : \frac{1 - \frac{5}{7}}{\frac{3}{14}}$$

3/4

[soluzione](#)

Esercizi e soluzioni

$$\left(1 - \frac{9}{10}\right) : \left(1 + \frac{1}{3}\right) = x : \frac{5}{6}$$

$$\frac{10-9}{10} : \frac{3+1}{3} = x : \frac{5}{6}$$

$$\frac{1}{10} : \frac{4}{3} = x : \frac{5}{6}$$

$$x = \frac{1}{10} \cdot \frac{5}{6} : \frac{4}{3} = \frac{1}{10_2} \cdot \frac{5}{6_2} \cdot \frac{3}{4} = \frac{1}{16}$$

Oppure suddividendo il problema per parti

$$1 - \frac{9}{10} = \frac{10-9}{10} = \frac{1}{10}$$

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

Abbiamo

$$\frac{1}{10} : \frac{4}{3} = x : \frac{5}{6}$$

$$x = \frac{1}{10} \cdot \frac{5}{6} : \frac{4}{3} = \frac{1}{10_2} \cdot \frac{5}{6_2} \cdot \frac{3}{4} = \frac{1}{16}$$

Con le equazioni

$$\frac{1}{10} : \frac{4}{3} = x : \frac{5}{6}$$

$$\frac{4}{3} \cdot x = \frac{1}{10} \cdot \frac{5}{6}$$

Moltiplicando ambedue i membri per $\frac{3}{4}$

$$\frac{4}{3} \cdot x \cdot \frac{3}{4} = \frac{1}{10} \cdot \frac{5}{6} \cdot \frac{3}{4}$$

$$x = \frac{1}{10_2} \cdot \frac{5}{6_2} \cdot \frac{3}{4} = \frac{1}{16}$$

$$\left(\frac{1}{3} + \frac{1}{6}\right) : \left(1 + \frac{1}{10}\right) = x : \frac{11}{6}$$

$$\frac{2+1}{6} : \frac{10+1}{10} = x : \frac{11}{6}$$

$$\frac{3^1}{6_2} : \frac{11}{10} = x : \frac{11}{6}$$

$$x = \frac{1}{2} \cdot \frac{11}{6} : \frac{11}{10} = \frac{1}{2} \cdot \frac{11}{6_3} \cdot \frac{10^5}{11} = \frac{5}{6}$$

$$\left(1 - \frac{1}{5}\right) : x = \left(\frac{3}{5} + \frac{1}{2}\right) : \left(1 - \frac{1}{12}\right)$$

$$\frac{5-1}{5} : x = \frac{6+5}{10} : \frac{12-1}{12}$$

$$\frac{4}{5} : x = \frac{11}{10} : \frac{11}{12}$$

$$x = \frac{4}{5} \cdot \frac{11}{12} : \frac{11}{10} = \frac{4^1}{5} \cdot \frac{11}{12_3} \cdot \frac{10^2}{11} = \frac{2}{3}$$

$$\left(1 - \frac{2}{3}\right) : x = \left(1 + \frac{1}{4}\right) : \left(1 - \frac{2}{5}\right)$$

$$\frac{3-2}{3} : x = \frac{4+1}{4} : \frac{5-2}{5}$$

$$\frac{1}{3} : x = \frac{5}{4} : \frac{3}{5}$$

$$x = \frac{1}{3} \cdot \frac{3}{5} \cdot \frac{5}{4} = \frac{1}{5} \cdot \frac{4}{5} = \frac{4}{25}$$

$$\left(6 + \frac{2}{5}\right) : x = \left(1 - \frac{1}{2}\right) : \left(3 - \frac{1}{2}\right)$$

$$\frac{32}{5} : x = \frac{1}{2} : \frac{5}{2}$$

$$x = \frac{32}{5} \cdot \frac{5}{2} : \frac{1}{2} = \frac{32}{5} \cdot \frac{5}{2} \cdot \frac{2}{1} = 32$$

$$\left(2 + \frac{1}{3}\right) : x = \left(\frac{3}{4} + \frac{1}{2}\right) : \left(1 - \frac{4}{7}\right)$$

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

$$x = \frac{7}{3} \cdot \frac{3}{7} : \frac{5}{4} = 1 \cdot \frac{4}{5} = \frac{4}{5}$$

$$x : \left(\frac{3}{4} + \frac{5}{4} \right) = \left(3 + \frac{1}{3} \right) : \left(1 + \frac{3}{2} \right)$$

$$x : \frac{3+5}{4} = \frac{9+1}{3} : \frac{2+3}{2}$$

$$x : \frac{8^2}{4_1} = \frac{10}{3} : \frac{5}{2}$$

$$x := \frac{10}{3} \cdot 2 : \frac{5}{2} = \frac{10}{3} \cdot 2 \cdot \frac{2}{5} = \frac{2}{3} \cdot 2 \cdot \frac{2}{1} = \frac{8}{3}$$

$$\left(8 - \frac{16}{5} \right) : \left(4 - \frac{8}{3} \right) = \left(4 - \frac{8}{11} \right) : x$$

$$\left(\frac{24}{5} \right) : \left(\frac{4}{3} \right) = \left(\frac{36}{11} \right) : x$$

$$x = \frac{4}{3} \cdot \frac{36}{11} \cdot \frac{5}{24} = \frac{1}{1} \cdot \frac{12}{11} \cdot \frac{5}{6} = \frac{2}{11} \cdot \frac{5}{1} = \frac{10}{11}$$

$$x : \left(1 - \frac{1}{4} \right) = \left(2 + \frac{2}{3} \right) : \left(1 + \frac{1}{8} \right)$$

$$x : \frac{3}{4} = \frac{8}{3} : \frac{9}{8}$$

$$x = \frac{3}{4} \cdot \frac{8}{3} : \frac{9}{8} = \frac{3}{4} \cdot \frac{8^2}{3} \cdot \frac{8}{9} = \frac{16}{9}$$

$$x : \left(\frac{1}{8} + \frac{1}{9} \right) = \left(\frac{1}{3} + \frac{7}{6} \right) : \left(\frac{3}{10} - \frac{8}{30} \right)$$

$$x : \left(\frac{1}{8} + \frac{1}{9} \right) = \left(\frac{1}{3} + \frac{7}{6} \right) : \left(\frac{3}{10} - \frac{8}{30} \right)$$

$$x : \left(\frac{9+8}{72} \right) = \left(\frac{2+7}{6} \right) : \left(\frac{9-8}{30} \right)$$

$$x : \left(\frac{17}{72} \right) = \left(\frac{9}{6} \right) : \left(\frac{1}{30} \right)$$

$$x = \frac{17}{72} \cdot \frac{9}{6} \cdot \frac{30}{1} = \frac{17}{72} \cdot \frac{3}{1} \cdot \frac{15}{1} = \frac{17}{24} \cdot \frac{15}{1} = \frac{255}{24} = \frac{85}{8}$$

$$x : \left(\frac{1}{8} + \frac{1}{9} \right) = \left(\frac{1}{3} + \frac{7}{6} \right) : \left(\frac{3}{10} + \frac{8}{30} \right)$$

$$x : \left(\frac{1}{8} + \frac{1}{9} \right) = \left(\frac{1}{3} + \frac{7}{6} \right) : \left(\frac{3}{10} + \frac{8}{30} \right)$$

$$x : \left(\frac{9+8}{72} \right) = \left(\frac{2+7}{6} \right) : \left(\frac{9+8}{30} \right)$$

$$x : \left(\frac{17}{72} \right) = \left(\frac{9}{6} \right) : \left(\frac{17}{30} \right)$$

$$x = \frac{17}{72} \cdot \frac{9}{6} \cdot \frac{30}{17} = \frac{1}{72} \cdot \frac{3}{2} \cdot \frac{30}{1} = \frac{1}{24} \cdot \frac{15}{1} = \frac{15}{24} = \frac{5}{8}$$

$$\left(\frac{3}{2} - \frac{1}{6}\right) : x = \left(1 + \frac{3}{2}\right) : \left(3 - \frac{1}{2}\right)$$

$$\left(\frac{9-1}{6}\right) : x = \left(\frac{2+3}{2}\right) : \left(\frac{6-1}{2}\right)$$

$$\left(\frac{8}{6}\right) : x = \left(\frac{5}{2}\right) : \left(\frac{5}{2}\right)$$

$$x = \frac{8}{6} \cdot \frac{5}{2} \cdot \frac{2}{5} = \frac{8}{6} = \frac{4}{3}$$

$$\left(\frac{10}{7} \cdot \frac{3}{8} - \frac{2}{7}\right) : x = \left(\frac{5}{6} + \frac{1}{4}\right) : \left(\frac{2}{3} - \frac{1}{8}\right)$$

$$\left(\frac{5}{7} \cdot \frac{3}{4} - \frac{2}{7}\right) : x = \left(\frac{10+3}{12}\right) : \left(\frac{16-3}{24}\right)$$

$$\left(\frac{15-8}{28}\right) : x = \left(\frac{10+3}{12}\right) : \left(\frac{16-3}{24}\right)$$

$$\left(\frac{7}{28}\right) : x = \left(\frac{13}{12}\right) : \left(\frac{13}{24}\right)$$

$$x = \left(\frac{7^1}{28_4}\right) \cdot \left(\frac{13}{24}\right) \cdot \left(\frac{12}{13}\right) = \frac{1}{8}$$

$$\left(\frac{1}{3} + \frac{7}{14} \cdot \frac{8}{5} - \frac{1}{15}\right) : \left(1 + \frac{1}{3}\right) = \left(5 + \frac{1}{3}\right) : x$$

$$\left(\frac{1}{3} + \frac{4}{5} - \frac{1}{15}\right) : \frac{4}{3} = \frac{16}{3} : x$$

$$\left(\frac{5 + 12 - 1}{15}\right) : \frac{4}{3} = \frac{16}{3} : x$$

$$\frac{16}{15} : \frac{4}{3} = \frac{16}{3} : x$$

$$x = \frac{4}{3} \cdot \frac{16^{\pm}}{3} \cdot \frac{15}{16^{\pm}} = \frac{20}{3}$$

$$\left(1 - \frac{2}{5} + \frac{1}{7} \cdot \frac{7}{5}\right) : \left(1 - \frac{2}{5} + \frac{1}{2}\right) = \left(2 + \frac{2}{5}\right) : x$$

$$\left(1 - \frac{2}{5} + \frac{1}{5}\right) : \left(\frac{10 - 4 + 5}{10}\right) = \left(\frac{10 + 2}{5}\right) : x$$

$$\left(\frac{5 - 2 + 1}{5}\right) : \frac{11}{10} = \frac{12}{5} : x$$

$$\frac{4}{5} : \frac{11}{10} = \frac{12}{5} : x$$

$$x = \frac{11}{10} \cdot \frac{12}{5} \cdot \frac{5}{4} = \frac{33}{10}$$

$$x : \left[2 + \frac{1}{2} - \left(1 - \frac{1}{2}\right)^2\right] = \left(1 - \frac{1}{8}\right) : \left(1 + \frac{1}{2} - \frac{2}{7} \cdot \frac{21}{16}\right)$$

$$x : \left[2 + \frac{1}{2} - \left(\frac{1}{2}\right)^2\right] = \frac{7}{8} : \left(1 + \frac{1}{2} - \frac{3}{8}\right)$$

$$x : \left[2 + \frac{1}{2} - \frac{1}{4}\right] = \frac{7}{8} : \left(\frac{8 + 4 - 3}{8}\right)$$

$$x : \left[\frac{8 + 2 - 1}{4}\right] = \frac{7}{8} : \frac{9}{8}$$

$$x : \frac{9}{4} = \frac{7}{8} : \frac{9}{8}$$

$$x = \frac{9}{4} \cdot \frac{7}{8} \cdot \frac{8}{9} = \frac{7}{4}$$

$$1:\left(1-\frac{4}{5}\cdot\frac{5}{34}\right)=\left[\frac{1}{3}-\left(1-\frac{1}{2}\right)^2+\frac{1}{5}\right]:x$$

$$1:\left(1-\frac{2}{17}\right)=\left[\frac{1}{3}-\left(\frac{1}{2}\right)^2+\frac{1}{5}\right]:x$$

$$1:\frac{15}{17}=\left[\frac{1}{3}-\frac{1}{4}+\frac{1}{5}\right]:x$$

$$1:\frac{15}{17}=\left[\frac{20-15+12}{60}\right]:x$$

$$1:\frac{15}{17}=\frac{17}{60}:x$$

$$x=\frac{15}{17}\cdot\frac{17}{60}=\frac{15}{60}=\frac{1}{4}$$

$$\left(\frac{3}{4}+\frac{1}{3}:2\right):10=\left[2+\left(1-\frac{1}{2}\right)^3:\left(1-\frac{3}{8}\right)\right]:x$$

$$\left(\frac{3}{4}+\frac{1}{6}\right):10=\left[2+\left(\frac{1}{2}\right)^3:\frac{5}{8}\right]:x$$

$$\left(\frac{9+2}{12}\right):10=\left[2+\frac{1}{8}\cdot\frac{8}{5}\right]:x$$

$$\frac{11}{12}:10=\left[2+\frac{1}{5}\right]:x$$

$$\frac{11}{12}:10=\frac{11}{5}:x$$

$$x=10\cdot\frac{11}{5}\cdot\frac{12}{11}=24$$

$$\left(\frac{1}{3} + \frac{7}{14} \cdot \frac{8}{5} - \frac{1}{15}\right) : \left(1 + \frac{1}{3}\right) = \left(5 + \frac{1}{3}\right) : x$$

$$\left(\frac{1}{3} + \frac{7}{14} \cdot \frac{8}{5} - \frac{1}{15}\right) : \left(1 + \frac{1}{3}\right) = \left(5 + \frac{1}{3}\right) : x$$

$$\left(\frac{1}{3} + \frac{4}{5} - \frac{1}{15}\right) : \frac{4}{3} = \left(\frac{15+1}{3}\right) : x$$

$$\left(\frac{1}{3} + \frac{7}{14} \cdot \frac{8}{5} - \frac{1}{15}\right) : \left(1 + \frac{1}{3}\right) = \left(5 + \frac{1}{3}\right) : x$$

$$\left(\frac{5+12-1}{15}\right) : \frac{4}{3} = \frac{16}{3} : x$$

$$\frac{16}{15} : \frac{4}{3} = \frac{16}{3} : x$$

$$x = \frac{4}{3} \cdot \frac{16}{3} : \frac{16}{15} = \frac{4}{3} \cdot \frac{16}{3} \cdot \frac{15}{16} = \frac{4}{9} \cdot \frac{15}{1} = \frac{4}{3} \cdot \frac{5}{1} = \frac{20}{3}$$

$$x : \left[2 + \frac{1}{2} - \left(1 - \frac{1}{2}\right)^2\right] = \left(1 - \frac{1}{8}\right) : \left(1 + \frac{1}{2} - \frac{2}{7} \cdot \frac{21}{16}\right)$$

$$x : \left[2 + \frac{1}{2} - \left(1 - \frac{1}{2}\right)^2\right] = \left(1 - \frac{1}{8}\right) : \left(1 + \frac{1}{2} - \frac{2}{7} \cdot \frac{21}{16}\right)$$

$$x : \left[2 + \frac{1}{2} - \frac{1}{4}\right] = \frac{7}{8} : \left(1 + \frac{1}{2} - \frac{1}{1} \cdot \frac{3}{8}\right)$$

$$x : \left[\frac{8+2-1}{4}\right] = \frac{7}{8} : \left(\frac{8+4-3}{8}\right)$$

$$x : \frac{9}{4} = \frac{7}{8} : \frac{9}{8}$$

$$x = \frac{9}{4} \cdot \frac{7}{8} : \frac{9}{8} = \frac{9}{4} \cdot \frac{7}{8} \cdot \frac{8}{9} = \frac{1}{4} \cdot \frac{7}{1} \cdot \frac{1}{1} = \frac{7}{4}$$

$$1: \left(1 - \frac{4}{5} \cdot \frac{5}{34}\right) = \left[\frac{1}{3} - \left(1 - \frac{1}{2}\right)^2 + \frac{1}{5}\right] : x$$

$$1: \left(1 - \frac{2}{1} \cdot \frac{1}{17}\right) = \left[\frac{1}{3} - \frac{1}{4} + \frac{1}{5}\right] : x$$

$$1: \left(\frac{17-2}{17}\right) = \left[\frac{20-15+12}{60}\right] : x$$

$$1: \frac{15}{17} = \frac{17}{60} : x$$

$$x = \frac{15}{17} \cdot \frac{17}{60} : 1 = \frac{1}{1} \cdot \frac{1}{4} : 1 = \frac{1}{4}$$

$$x: \left(3 - \frac{9}{8} - \frac{3}{4}\right) = \left(2 + \frac{1}{2} - \frac{5}{3}\right) : \left(2 + \frac{1}{2} - \frac{5}{4}\right)$$

$$x: \left(\frac{24-9-6}{8}\right) = \left(\frac{12+3-10}{6}\right) : \left(\frac{8+2-5}{4}\right)$$

$$x: \frac{9}{8} = \frac{5}{6} : \frac{5}{4}$$

$$x = \frac{9}{8} \cdot \frac{5}{6} \cdot \frac{4}{5} = \frac{3}{4}$$

$$\left(\frac{5}{4} - \frac{2}{3} : \frac{5}{6} + \frac{1}{2}\right) : \left[\left(\frac{2}{5} + \frac{1}{4}\right) \cdot \left(\frac{10}{13} + \frac{1}{2}\right)\right] = x : \left(\frac{1}{3} + \frac{3}{4} - \frac{1}{6}\right)$$

$$\left(\frac{5}{4} - \frac{4}{5} + \frac{1}{2}\right) : \left[\left(\frac{8+5}{20}\right) \cdot \left(\frac{20+13}{26}\right)\right] = x : \left(\frac{4+9-2}{12}\right)$$

$$\left(\frac{25-16+10}{20}\right) : \left[\frac{13}{20} \cdot \frac{33}{26}\right] = x : \left(\frac{11}{12}\right)$$

$$\left(\frac{19}{20}\right) : \left[\frac{33}{40}\right] = x : \left(\frac{11}{12}\right)$$

$$x = \frac{19}{20} \cdot \frac{11}{12} \cdot \frac{40}{33} = \frac{19}{18}$$

$$\left(\frac{12}{9} + \frac{3}{10} - \frac{42}{90}\right) : \left(\frac{29}{9} - \frac{25}{9}\right) = x : \left(\frac{1}{5} + \frac{6}{10}\right)$$

$$\left(\frac{120 + 27 - 42}{90}\right) : \left(\frac{29 - 25}{9}\right) = x : \left(\frac{1}{5} + \frac{3}{5}\right)$$

$$\frac{105}{90} : \frac{4}{9} = x : \left(\frac{1+3}{5}\right)$$

$$\frac{21^7}{18_6} : \frac{4}{9} = x : \frac{4}{5}$$

$$x = \frac{7}{2} \cdot \frac{4}{6} \cdot \frac{9^3}{5 \cdot 4} = \frac{21}{10}$$

$$\left(\frac{38}{15} \cdot \frac{1}{2} + \frac{13}{10}\right) : x = 1 : \left(\frac{3}{11} - \frac{1}{7}\right)$$

$$\left(\frac{19}{15} + \frac{13}{10}\right) : x = 1 : \left(\frac{21-11}{77}\right)$$

$$\frac{38+39}{30} : x = 1 : \frac{10}{77}$$

$$\frac{77}{30} : x = 1 : \frac{10}{77}$$

$$x = \frac{77}{30} \cdot \frac{10}{77} = \frac{10}{30} = \frac{1}{3}$$

$$\left(1 + \frac{1}{3}\right) : x = \left[\left(\frac{9}{10} - \frac{3}{5}\right) : \left(1 - \frac{2}{5}\right)\right] : \frac{21}{16}$$

$$\left(\frac{3+1}{3}\right) : x = \left[\left(\frac{9-6}{10}\right) : \left(\frac{5-2}{5}\right)\right] : \frac{21}{16}$$

$$\frac{4}{3} : x = \left(\frac{3}{10} : \frac{3}{5}\right) : \frac{21}{16}$$

$$x = \frac{4}{3} \cdot \frac{21}{16} \cdot 2 = \frac{7}{2}$$

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

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

$$x = \left[\frac{1}{9} \cdot \frac{36}{1}\right] \cdot \left[\frac{1}{16} \div \frac{1}{4}\right] : \left[\frac{9}{4} - \frac{1}{2}\right] =$$

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

$$\begin{aligned}
 x &: \left(\frac{1}{4} \cdot \frac{5}{2} - \frac{3}{2} \cdot \frac{1}{4} \right) = \left(\frac{6}{3} \cdot \frac{5}{4} + 1 \right) : \left(\frac{6}{10} \cdot \frac{5}{2} + 1 \right) \\
 x &= \left(\frac{1}{4} \cdot \frac{5}{2} - \frac{3}{2} \cdot \frac{1}{4} \right) \cdot \left(\frac{6}{3} \cdot \frac{5}{4} + 1 \right) \div \left(\frac{6}{10} \cdot \frac{5}{2} + 1 \right) = \\
 &= \left(\frac{5}{8} - \frac{3}{8} \right) \cdot \left(\frac{5}{2} + 1 \right) \div \left(\frac{3}{2} + 1 \right) = \\
 &= \frac{2}{8} \cdot \frac{7}{2} \div \frac{5}{2} \\
 &= \frac{2}{8} \cdot \frac{7}{2} \cdot \frac{2}{5} = \\
 &= \frac{1}{4} \cdot \frac{7}{1} \cdot \frac{1}{5} = \frac{7}{20}
 \end{aligned}$$

$$\begin{aligned}
 \left[\left(1 - \frac{1}{6} \right) - \frac{3}{4} : \frac{9}{4} \right] : \left[\left(1 + \frac{1}{4} \right) - \left(\frac{1}{5} + \frac{1}{2} \right) \cdot \frac{1}{7} : \frac{2}{5} \right] &= x : \left(2 - \frac{5}{3} \right) \\
 x &= \left[\left(1 - \frac{1}{6} \right) - \frac{3}{4} : \frac{9}{4} \right] \cdot \left(2 - \frac{5}{3} \right) : \left[\left(1 + \frac{1}{4} \right) - \left(\frac{1}{5} + \frac{1}{2} \right) \cdot \frac{1}{7} : \frac{2}{5} \right] \\
 &= \left[\frac{5}{6} - \frac{1}{3} \right] \cdot \left(\frac{1}{3} \right) : \left[\frac{5}{4} - \left(\frac{2+5}{10} \right) \cdot \frac{1}{7} \cdot \frac{5}{2} \right] = \\
 &= \left[\frac{5-2}{6} \right] \cdot \frac{1}{3} : \left[\frac{5}{4} - \frac{7}{10} \cdot \frac{1}{7} \cdot \frac{5}{2} \right] = \\
 &= \frac{3}{6} \cdot \frac{1}{3} : \left[\frac{5}{4} - \frac{1}{4} \right] = \\
 &= \frac{1}{2} \cdot \frac{1}{3} : \frac{4}{4} = \\
 &= \frac{1}{2} \cdot \frac{1}{3} = \frac{1}{6}
 \end{aligned}$$

$$\begin{aligned}
 & \left[\left(1 - \frac{2}{3} \right) : \frac{5}{6} \right] : \left[\left(1 + \frac{1}{5} \right) \cdot \left(\frac{5}{4} - \frac{7}{6} \right) \right] = x : \left[\left(1 - \frac{11}{13} \right) \cdot \left(\frac{3}{4} + \frac{5}{2} \right) \right] \\
 x &= \left[\left(1 - \frac{2}{3} \right) : \frac{5}{6} \right] \cdot \left[\left(1 - \frac{11}{13} \right) \cdot \left(\frac{3}{4} + \frac{5}{2} \right) \right] : \left[\left(1 + \frac{1}{5} \right) \cdot \left(\frac{5}{4} - \frac{7}{6} \right) \right] \\
 &= \left[\frac{1}{3} : \frac{5}{6} \right] \cdot \left[\frac{2}{13} \cdot \frac{13}{4} \right] : \left[\frac{6}{5} \cdot \left(\frac{15-14}{12} \right) \right] = \\
 &= \left[\frac{1}{3_1} : \frac{5}{6_2} \right] \cdot \frac{1}{2} : \left[\frac{6}{5} \cdot \frac{1}{12} \right] = \\
 &= \frac{2}{5} \cdot \frac{1}{2} : \frac{1}{10} = \\
 &= \frac{1}{5} \cdot \frac{10}{1} = 2
 \end{aligned}$$

$$\begin{aligned}
 & \left\{ 1 - \left[1 - \left(\frac{1}{3} + \frac{1}{6} \right) \right] \right\}^2 : x = \left(\frac{4}{5} \right)^2 : \left[2 - \left(\frac{1}{2} + \frac{7}{10} \right) \div 3 \right]^2 \\
 x &= \left\{ 1 - \left[1 - \left(\frac{1}{3} + \frac{1}{6} \right) \right] \right\}^2 \cdot \left[2 - \left(\frac{1}{2} + \frac{7}{10} \right) \div 3 \right]^2 : \left(\frac{4}{5} \right)^2 = \\
 &= \left\{ 1 - \left[1 - \frac{2+1}{6} \right] \right\}^2 \cdot \left[2 - \frac{5+7}{10} \div 3 \right]^2 : \frac{16}{25} = \\
 &= \left\{ 1 - \left[1 - \frac{3^1}{6_2} \right] \right\}^2 \cdot \left[2 - \frac{12}{10} \cdot \frac{1}{3} \right]^2 \cdot \frac{25}{16} = \\
 &= \left\{ 1 - \left[1 - \frac{3^1}{6_2} \right] \right\}^2 \cdot \left[2 - \frac{2^4 \cdot 12}{10_5} \cdot \frac{1}{3_1} \right]^2 \cdot \frac{25}{16} = \\
 &= \left\{ 1 - \frac{1}{2} \right\}^2 \cdot \left[\frac{10-2}{5} \right]^2 \cdot \frac{25}{16} = \\
 &= \frac{1}{4} \cdot \frac{64^{16^1}}{1 \cdot 25} \cdot \frac{25^1}{16_1} = 1
 \end{aligned}$$

$$\left\{ \left[\frac{10}{27} \cdot \left(1 - \frac{19}{25} \right) \right] : \left[\left(\frac{1}{5} + 1 \right) \cdot \frac{1}{9} \right] \right\} : \left(1 + \frac{1}{15} \right) = \left(1 - \frac{1}{4} \right)^2 : x$$

$$\left\{ \left[\frac{10}{27} \cdot \left(\frac{25-19}{25} \right) \right] : \left[\left(\frac{1+5}{5} \right) \cdot \frac{1}{9} \right] \right\} : \left(\frac{15+1}{15} \right) = \left(\frac{4-1}{4} \right)^2 : x$$

$$\left\{ \left[\frac{10}{27} \cdot \frac{6}{25} \right] : \left[\left(\frac{6}{5} \right) \cdot \frac{1}{9} \right] \right\} : \left(\frac{16}{15} \right) = \left(\frac{3}{4} \right)^2 : x$$

$$\left\{ \left[\frac{4}{45} \right] : \left[\left(\frac{2}{5} \right) \cdot \frac{1}{3} \right] \right\} : \frac{16}{15} = \frac{9}{16} : x$$

$$\left(\frac{4}{45} \cdot \frac{15}{2} \right) : \frac{16}{15} = \frac{9}{16} : x$$

$$\frac{2}{3} : \frac{16}{15} = \frac{9}{16} : x$$

$$x = \frac{16}{15} \cdot \frac{9}{16} \cdot \frac{3}{2} = \frac{9}{10}$$

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

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

$$= \left(\frac{9}{4} \right) \cdot \left[1 + \left(\frac{1}{2} \right) \cdot \left(\frac{1}{2} \right) \right] : \left[\frac{1}{2} + 1 : \left(\frac{4}{3} \right) \right] =$$

$$= \frac{9}{4} \cdot \left[1 + \frac{1}{4} \right] : \left[\frac{1}{2} + \frac{3}{4} \right] =$$

$$= \frac{9}{4} \cdot \frac{5}{4} : \left[\frac{2+3}{4} \right] =$$

$$= \frac{9}{4} \cdot \frac{5}{4} \cdot \frac{4}{5} = \frac{9}{4}$$

$$\left(3 - \frac{2}{3}\right) : \frac{49}{3} = x : \left[\frac{1}{4} \cdot \left(2 + \frac{1}{3}\right)\right]$$

$$\left(\frac{9-2}{3}\right) : \frac{49}{3} = x : \left[\frac{1}{4} \cdot \left(\frac{6+1}{3}\right)\right]$$

$$\frac{7}{3} : \frac{49}{3} = x : \left[\frac{1}{4} \cdot \frac{7}{3}\right]$$

$$\frac{7}{3} : \frac{49}{3} = x : \frac{7}{12}$$

$$x = \frac{7}{3} \cdot \frac{7}{12} \cdot \frac{3}{49} = \frac{1}{12}$$

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

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

$$\left[\frac{1}{2} + 1\right] : \left[1 - \frac{2}{3}\right] = x : \left[1 + \frac{1}{2}\right]$$

$$\frac{3}{2} : \frac{1}{3} = x : \frac{3}{2}$$

$$x = \frac{3}{2} \cdot \frac{3}{2} \cdot \frac{2}{1} = \frac{27}{4}$$

$$\left(\frac{1}{4} : \frac{1}{9} - \frac{4}{3} : \frac{2}{3}\right) : \left(\frac{1}{14} : \frac{1}{2} - \frac{3}{28}\right) = x : \left[\frac{19}{15} - \frac{2}{5} : \frac{3}{7}\right]$$

$$\left(\frac{1}{4} \cdot \frac{9}{1} - \frac{4}{3} \cdot \frac{3}{2}\right) : \left(\frac{1}{14} \cdot \frac{2}{1} - \frac{3}{28}\right) = x : \left[\frac{19}{15} - \frac{2}{5} \cdot \frac{7}{3}\right]$$

$$\left(\frac{9}{4} - 2\right) : \left(\frac{1}{7} - \frac{3}{28}\right) = x : \left[\frac{19}{15} - \frac{14}{15}\right]$$

$$\left(\frac{9-8}{4}\right) : \left(\frac{4-3}{28}\right) = x : \left[\frac{19-14}{15}\right]$$

$$\frac{1}{4} : \frac{1}{28} = x : \frac{6}{15}$$

$$x = \frac{1}{4} \cdot \frac{6}{15} \cdot \frac{28}{1} = \frac{14}{5}$$

$$(1,\bar{3} + 0,3 - 0,4\bar{6}) : (3,\bar{2} - 2,\bar{7}) = x : (0,2 + 0,6)$$

$$\left(\frac{12}{9} + \frac{3}{10} - \frac{42}{90}\right) : \left(\frac{29}{9} - \frac{25}{9}\right) = x : \left(\frac{2}{10} + \frac{6}{10}\right)$$

$$\left(\frac{120 + 27 - 42}{90}\right) : \left(\frac{29 - 25}{9}\right) = x : \left(\frac{2 + 6}{10}\right)$$

$$\frac{105}{90} : \frac{4}{9} = x : \frac{8}{10}$$

$$\frac{21^7}{18_6} : \frac{4}{9} = x : \frac{4}{5}$$

$$x = \frac{7}{26} \cdot \frac{4}{5} \cdot \frac{9^3}{4} = \frac{21}{10}$$

$$(1, (1) - 0, (3)) : 0,75 = x : \left(2 + \frac{2}{7}\right)$$

$$\left(\frac{11 - 1}{9} - \frac{3}{9}\right) : \frac{75}{100} = x : \left(\frac{14 + 2}{7}\right)$$

$$\left(\frac{10}{9} - \frac{3}{9}\right) : \frac{3}{4} = x : \frac{16}{7}$$

$$\frac{7}{9} : \frac{3}{4} = x : \frac{16}{7}$$

$$x = \frac{7}{9} \cdot \frac{16}{7} \cdot \frac{3}{4} = \frac{16}{9} \cdot \frac{3}{4} = \frac{4}{3}$$

$$\left(0,2 + 0,08 + \frac{7}{25}\right) : \left(0,0(5) + \frac{32}{27} + \frac{59}{54}\right) = x : (2,5 + 0,8(3))$$

$$\left(\frac{2}{10} + \frac{2}{25} + \frac{7}{25}\right) : \left(\frac{1}{18} + \frac{32}{27} + \frac{59}{54}\right) = x : \left(\frac{5}{2} + \frac{75^5}{90_6}\right)$$

$$\left(\frac{1}{5} + \frac{2}{25} + \frac{7}{25}\right) : \left(\frac{1}{18} + \frac{32}{27} + \frac{59}{54}\right) = x : \left(\frac{15+5}{6}\right)$$

$$\left(\frac{5+2+7}{25}\right) : \left(\frac{3+64+59}{54}\right) = x : \left(\frac{20}{6}\right)$$

$$\frac{14}{25} : \frac{126^{14}}{54_6} = x : \frac{10}{3}$$

$$x = \frac{14}{25} \cdot \frac{10}{3} \cdot \frac{6}{14} = \frac{1}{5} \cdot \frac{2}{1} \cdot \frac{6}{3} = \frac{4}{5}$$

$$(1,2(6) + 1,3) : x = 1 : \left(0, (27) - \frac{1}{7}\right)$$

$$\left(\frac{126-12}{90} + \frac{13}{10}\right) : x = 1 : \left(\frac{27}{99} - \frac{1}{7}\right)$$

$$\left(\frac{114}{90} + \frac{13}{10}\right) : x = 1 : \left(\frac{3}{11} - \frac{1}{7}\right)$$

$$\left(\frac{19}{15} + \frac{13}{10}\right) : x = 1 : \left(\frac{21-11}{77}\right)$$

$$\frac{38+39}{30} : x = 1 : \frac{10}{77}$$

$$\frac{77}{30} : x = 1 : \frac{10}{77}$$

$$x = \frac{77}{30} \cdot \frac{10}{77} = \frac{10}{30} = \frac{1}{3}$$

$$\sqrt{\frac{3}{14} : \frac{9}{28} + \frac{10}{9}} : x = \frac{\frac{4}{5} - \frac{1}{2}}{\sqrt{\frac{21}{50} : \frac{7}{6}}} : \left(1 + \frac{5}{2^4}\right)$$

$$\sqrt{\frac{2}{3} + \frac{10}{9}} : x = \left(\frac{8-5}{10} : \sqrt{\frac{9}{25}}\right) : \frac{21}{16}$$

$$\sqrt{\frac{16}{9}} : x = \left(\frac{3}{10} : \frac{3}{5}\right) : \frac{21}{16}$$

$$x = \frac{4}{3} \cdot \frac{21}{16} \cdot 2 = \frac{7}{2} = 3,5$$

$$\frac{\frac{1}{4} + \frac{1}{3} + \frac{2}{5}}{\frac{1}{4} + \frac{1}{3} + \frac{2}{5}} : \frac{\frac{1}{4} \cdot \frac{1}{3} + \frac{2}{5}}{\frac{1}{4} + \frac{1}{3} + \frac{2}{5}} = \frac{5 + \frac{9}{10}}{\frac{4}{5} + \frac{3}{2}} : x$$

$$\frac{\frac{15+20+24}{60}}{\frac{15+8}{60}} : \frac{\frac{5+24}{60}}{\frac{15+20-24}{60}} = \frac{\frac{50+9}{10}}{\frac{23}{10}} : x$$

$$\left(\frac{59}{60} \cdot \frac{60}{23}\right) : \left(\frac{29}{60} \cdot \frac{60}{11}\right) = \frac{59}{23} : x$$

$$x = \frac{59}{23} \cdot \frac{29}{11} \cdot \frac{23}{59} = \frac{29}{11}$$

$$x = 2,\overline{63}$$

$$\frac{\frac{6}{5} - \frac{10}{9}}{\left(\frac{5}{4} + \frac{1}{20}\right) \cdot \frac{1}{9}} : \frac{16}{15} = \left(\frac{5}{6} - \frac{1}{12}\right)^2 : x$$

$$\frac{\frac{54-50}{45}}{\left(\frac{25-1}{20}\right) \cdot \frac{1}{9}} : \frac{16}{15} = \left(\frac{10-1}{12}\right)^2 : x$$

$$\frac{\frac{4}{45}}{\left(\frac{24}{20}\right) \cdot \frac{1}{9}} : \frac{16}{15} = \left(\frac{9}{12}\right)^2 : x$$

$$\frac{\frac{4}{45}}{\left(\frac{6}{5}\right) \cdot \frac{1}{9}} : \frac{16}{15} = \left(\frac{3}{4}\right)^2 : x$$

$$\left(\frac{4}{45} \cdot \frac{5}{6} \cdot \frac{9}{1}\right) : \frac{16}{15} = \frac{9}{16} : x$$

$$\frac{2}{3} : \frac{16}{15} = \frac{9}{16} : x$$

$$x = \frac{16}{15} \cdot \frac{9}{16} \cdot \frac{3}{2} = \frac{9}{10} = 0,9$$

$$x: \frac{\left(1 - \frac{5}{6}\right) : \frac{7}{3}}{\frac{5}{9} \cdot \left(1 - \frac{7}{10}\right)} = \frac{\frac{7}{6} + \frac{5}{3} - \frac{1}{2}}{\left(\frac{11}{12} + \frac{1}{3}\right) - \frac{1}{4}} : \frac{1 - \frac{5}{7}}{\frac{3}{14}}$$

$$x: \frac{\left(\frac{6-5}{6}\right) \cdot \frac{3}{7}}{\frac{5}{9} \cdot \left(\frac{10-7}{10}\right)} = \frac{\frac{7+10-3}{6}}{\left(\frac{11+4}{12}\right) - \frac{1}{4}} : \frac{7-5}{\frac{3}{14}}$$

$$x: \frac{\left(\frac{1}{6}\right) \cdot \frac{3}{7}}{\frac{5}{9} \cdot \left(\frac{3}{10}\right)} = \frac{\frac{14}{6}}{\frac{15}{12} - \frac{1}{4}} : \left(\frac{2}{7} \cdot \frac{14}{3}\right)$$


$$x: \frac{\frac{1}{6}}{\frac{1}{6}} = \frac{\frac{14}{6}}{\frac{15-3}{12}} : \frac{4}{3}$$



$$x: \left(\frac{1}{14} \cdot \frac{6}{1}\right) = \frac{14}{6} : \frac{4}{3}$$

$$x: \frac{3}{7} = \frac{7}{3} : \frac{4}{3}$$

$$x = \frac{3}{7} \cdot \frac{7}{3} \cdot \frac{3}{4} = \frac{3}{4}$$

Keywords

 *Matematica, Aritmetica, Proporzionalità, Proporzioni, calcolo del termine incognito di una proporzione, estremi, medi, proporzioni, risolvere una proporzione, ricerca termine incognito, incognita, x, medio proporzionale, esercizi con soluzioni*

  *Math, Arithmetic, Proportion, Proportionality, extremes, means, solving a proportion, Math solved exercises*

 *Matemática, Aritmética, Proporción*

 *Mathématique, Arithmétique, Proportion*

 *Mathematik, Arithmetik, das Verhältnis*

Arabic: كَمِيَّة، حَجْم، عَدَد

Chinese 比例

Czech: poměr

Danish: forhold

Dutch: verhouding

Estonian: (õige) vahekord

Finnish: suhde

Greek: αναλογία

Hungarian: arány

Icelandic: hlutfall

Indonesian: perbandingan

Japanese: 割合

Korean: (양·크기·수 따위의) 비, 비율

Latvian: proporcija; attiecība; samērs

Lithuanian: proporcija, santykis

Norwegian: forhold

Polish: proporcja

Portuguese: proporção

Romanian: proporție

Russian: пропорция

Slovak: pomer, podiel

Slovenian: razmerje

Swedish: proportion

Turkish: oran, nisbet