15   2   4   12

i numeri (nell'ordine dato) formano una proporzione se
IL PRODOTTO DEI MEDI è UGUALE AL PRODOTTO DEGLI ESTREMI

$$2 \cdot 4 = 8$$

$$15 \cdot 12 = 180$$

NO

18   9   6   3

$$9 \cdot 6 = 54$$

$$18 \cdot 3 = 54$$

SI

$$18 : 9 = 6 : 3$$

$$4 \quad \frac{3}{14} \qquad \frac{8}{5} \qquad \frac{3}{35}$$

$$4 \cdot \frac{3}{35} = \frac{12}{35}$$

$$\frac{3}{\cancel{14}_{7}} \cdot \frac{\cancel{8}^{4}}{5} = \frac{12}{35} \qquad\qquad 51$$

$$4 : \frac{3}{14} = \frac{8}{5} : \frac{3}{35}$$

$$6 : x = 15 : 5$$

$$x = \frac{\overset{2}{\cancel{6}} \cdot \overset{1}{\cancel{5}}}{\underset{\underset{1}{3}}{\cancel{15}}} = 2$$

$$\frac{8}{7} : \frac{5}{14} = x : \frac{21}{8}$$

$$x = \frac{\frac{\overset{8}{\cancel{8}}}{\cancel{7}} \cdot \frac{\overset{3}{\cancel{21}}}{\cancel{8}}}{\frac{5}{14}} = 3 \cdot \frac{14}{5} = \frac{42}{5}$$

$$\left(3 - \frac{3}{5} + \frac{1}{10}\right) : \left(\frac{8}{5} + \frac{1}{15}\right) = \left(\frac{1}{3} + 2 - \frac{5}{15} \cdot \frac{13}{6}\right) : x$$

$$\left(\frac{30-6+1}{10}\right) : \left(\frac{24+1}{15}\right) = \left(\frac{2+12-5}{6}\right) : x$$

$$\frac{\overset{5}{\cancel{25}}}{\underset{2}{\cancel{10}}} : \frac{\overset{5}{\cancel{25}}}{\underset{3}{\cancel{15}}} = \frac{\overset{3}{\cancel{9}}}{\underset{2}{\cancel{6}}} : x$$

$$x = \frac{\frac{5}{3} \cdot \frac{3}{2}}{\frac{5}{2}} = \frac{\cancel{5}}{\cancel{3}} \cdot \frac{\cancel{3}}{\cancel{2}} \cdot \frac{\cancel{2}}{\cancel{5}} = 1$$

$$\left[\frac{8}{14}\cdot\left(\frac{2}{3}-\frac{3}{8}\right)\right]:x=\left[\left(\frac{1}{2}+3+\frac{2}{3}\right)\cdot\frac{3}{5}\right]:\left[\left(\frac{3}{10}+\frac{6}{5}\right)\cdot\frac{15}{4}\right]$$

$$\left[\frac{8}{14}\cdot\left(\frac{16-9}{24}\right)\right]:x=\left[\left(\frac{3+18+4}{6}\right)\cdot\frac{3}{5}\right]:\left[\left(\frac{3+12}{10}\right)\cdot\frac{15}{4}\right]$$

$$\left[\frac{8}{14}\cdot\frac{7}{24}\right]:x=\left[\frac{25}{6}\cdot\frac{3}{5}\right]:\left[\frac{15}{10}\cdot\frac{15}{4}\right]$$

$$\frac{1}{6}:x=\frac{5}{2}:\frac{45}{8}$$

$$x=\frac{\frac{1}{6}\cdot\frac{45}{8}}{\frac{5}{2}}=\frac{1}{6}\cdot\frac{45}{8}\cdot\frac{2}{5}=\frac{3}{8}$$

$$\left(\frac{5}{2}-\frac{3}{4}-1+\frac{1}{2}\right):\left(\frac{4}{3}\cdot\frac{5}{4}-2\cdot\frac{3}{4}\right)=x:\left[\left(3+\frac{1}{2}\right)\cdot\frac{4}{21}\right]$$

$$\left(\frac{10-3-4+2}{4}\right):\left(\frac{10-9}{6}\right)=x:\left[\left(\frac{6+1}{2}\right)\cdot\frac{4}{21}\right]$$

$$\frac{5}{4}:\frac{1}{6}=x:\left[\frac{7}{2}\cdot\frac{4}{21}\right]$$

$$\frac{5}{4}:\frac{1}{6}=x:\frac{2}{3}$$

$$x=\frac{\frac{5}{4}\cdot\frac{2}{3}}{\frac{1}{6}}=\frac{5}{6}\cdot6=5$$