

$$14. \left(3 + \frac{6}{8} - \frac{14}{7}\right) \cdot \frac{2}{7} \cdot \left(\frac{1}{4} - \frac{1}{6}\right) - \frac{1}{24}$$

$$15. \frac{21}{26} \cdot \frac{13}{7} + 3 \cdot \frac{5}{6} + \left(1 - \frac{3}{4}\right) - \left(1 - \frac{9}{28}\right)$$

$$16. \left[\left(\frac{3}{4} + \frac{2}{3}\right) \cdot \frac{3}{34} + \left(\frac{1}{3} - \frac{1}{4}\right) \cdot \frac{3}{2} - \left(1 - \frac{3}{4}\right) \cdot \frac{1}{3} \right] \cdot \frac{2}{3} + \frac{5}{7} \cdot \frac{7}{9} - \frac{1}{3}$$

http://www.ubimath.org/frazioni/Frazioni_Espressioni_4Operazioni_Intermediate_UbiMath.pdf

In un cesto ci sono 35 frutti: $\frac{3}{7}$ sono kiwi, $\frac{1}{5}$ banane e il resto arance. Quante arance?

In una scuola di 900 alunni $\frac{7}{9}$ praticano sport. I $\frac{3}{5}$ di quelli che non lo praticano hanno problemi di obesità. Quanti alunni non praticano sport ma non hanno problemi di obesità?

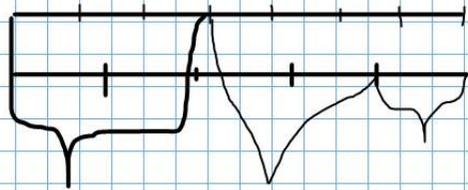
In una fioriera ci sono surfinie e petunie. Le surfinie sono $\frac{5}{11}$ del totale dei fiori e le petunie sono 24. Quanti fiori ci sono in tutto?

http://www.ubimath.org/frazioni/Frazioni_Espressioni_4Operazioni_Intermediate_UbiMath.pdf

$$\begin{aligned} & \left(3 + \frac{6}{8} - \frac{14}{7}\right) \cdot \frac{2}{7} \cdot \left(\frac{1}{4} - \frac{1}{6}\right) - \frac{1}{24} = \\ & = \left(3 + \frac{3}{4} - \frac{2}{1}\right) \cdot \frac{2}{7} \cdot \left(\frac{3-2}{12}\right) - \frac{1}{24} = \\ & = \frac{12+3-8}{4} \cdot \frac{2}{7} \cdot \frac{1}{12} - \frac{1}{24} = \\ & = \frac{7}{4} \cdot \frac{2}{7} \cdot \frac{1}{12} - \frac{1}{24} = \\ & = \frac{1}{2} \cdot \frac{1}{12} - \frac{1}{24} = \\ & = \frac{1}{24} - \frac{1}{24} = 0 \end{aligned}$$

$$\begin{aligned} & \frac{21}{26} : \frac{7}{13} + 3 \cdot \frac{5}{6} + \left(1 - \frac{3}{4}\right) - \left(1 - \frac{9}{28}\right) = \\ & = \frac{21}{26} \cdot \frac{13}{7} + 1 \cdot \frac{5}{2} + \left(\frac{4-3}{4}\right) - \left(\frac{28-9}{28}\right) = \\ & = \frac{3}{2} + \frac{5}{2} + \frac{1}{4} - \frac{19}{28} = \\ & = \frac{42+70+7-19}{28} = \\ & = \frac{100}{28} = \frac{50}{14} = \frac{25}{7} \end{aligned}$$

$$\begin{aligned}
& \left[\left(\frac{3}{4} + \frac{2}{3} \right) \cdot \frac{3}{34} + \left(\frac{1}{3} - \frac{1}{4} \right) \cdot \frac{3}{2} - \left(1 - \frac{3}{4} \right) \cdot \frac{1}{3} \right] \cdot \frac{2}{3} + \frac{5}{7} \cdot \frac{7}{9} - \frac{1}{3} = \\
& = \left[\frac{9+8}{12} \cdot \frac{3}{34} + \frac{4-3}{12} \cdot \frac{3}{2} - \frac{4-3}{4} \cdot \frac{1}{3} \right] \cdot \frac{2}{3} + \frac{5}{7} \cdot \frac{7}{9} - \frac{1}{3} = \\
& = \left[\frac{17}{12} \cdot \frac{3}{34} + \frac{1}{12} \cdot \frac{3}{2} - \frac{1}{4} \cdot \frac{1}{3} \right] \cdot \frac{2}{3} + \frac{5}{7} \cdot \frac{7}{9} - \frac{1}{3} = \\
& = \left[\frac{1}{8} + \frac{1}{8} - \frac{1}{12} \right] \cdot \frac{2}{3} + \frac{5}{7} \cdot \frac{7}{9} - \frac{1}{3} = \\
& = \left[\frac{2^1}{8_4} - \frac{1}{12} \right] \cdot \frac{2}{3} + \frac{5}{9} - \frac{1}{3} = \\
& = \left[\frac{3-1}{12} \right] \cdot \frac{2}{3} + \frac{5}{9} - \frac{1}{3} = \\
& = \left[\frac{2}{12} \right] \cdot \frac{2}{3} + \frac{5}{9} - \frac{1}{3} = \\
& = \frac{1}{9} + \frac{5}{9} - \frac{1}{3} = \\
& = \frac{6^2}{9_3} - \frac{1}{3} = \frac{1}{3}
\end{aligned}$$



$$7/7 = 5/5 \equiv 35 \text{ frutti}$$

3/7 kiwi

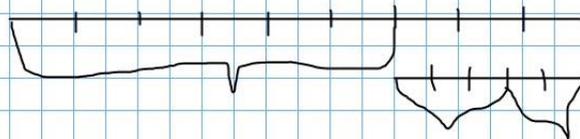
arance

1/5 banane

$$(35 : 7) \times 3 = 5 \times 3 = 15 \text{ kiwi}$$

$$(35 : 5) \times 1 = 7 \times 1 = 7 \text{ banane}$$

$$35 - (15 + 7) = 35 - 22 = 13 \text{ arance}$$



$$9/9 \equiv 900 \text{ alunni}$$

7/9 sport

3/5 obesi non obesi

$$(900 : 9) \times 7 = 100 \times 7 = 700 \text{ sport}$$

$$900 - 700 = 200 \text{ rimanenti}$$

$$(200 : 5) \times 3 = 40 \times 3 = 120 \text{ obesi}$$

$$200 - 120 = 80 \text{ non obesi}$$



11/11 tot. fiori

5/11 surfinie 24 petunie

$11/11 - 5/11 = 6/11$ fraz. petunie

$24 : 6 = 4$ U.F.

$4 \times 11 = 44$ tot. fiori