

**Задача 7. Отг. 163 980.**

$$\begin{aligned} \left(\frac{14}{15} - \left(x \cdot \frac{1}{36} - 2024 \frac{4}{5}\right) \cdot 3 \frac{2}{3}\right) : 1 \frac{3}{10} + \frac{2}{5} \cdot 10 &= 5 - \frac{11}{13} & \left(x \cdot \frac{1}{36} - 2024 \frac{4}{5}\right) \cdot \frac{11}{3} &= \frac{11}{15} \\ \left(\frac{14}{15} - \left(x \cdot \frac{1}{36} - 2024 \frac{4}{5}\right) \cdot 3 \frac{2}{3}\right) : \frac{13}{10} + 4 &= 4 \frac{2}{13} & x \cdot \frac{1}{36} - 2024 \frac{4}{5} &= \frac{11}{15} \cdot \frac{3}{11} \\ \left(\frac{14}{15} - \left(x \cdot \frac{1}{36} - 2024 \frac{4}{5}\right) \cdot 3 \frac{2}{3}\right) : \frac{13}{10} &= \frac{2}{13} & x \cdot \frac{1}{36} - 2024 \frac{4}{5} &= \frac{1}{5} \\ \frac{14}{15} - \left(x \cdot \frac{1}{36} - 2024 \frac{4}{5}\right) \cdot 3 \frac{2}{3} &= \frac{2}{13} \cdot \frac{13}{10} & x \cdot \frac{1}{36} &= \frac{1}{5} + 2024 \frac{4}{5} \\ \frac{14}{15} - \left(x \cdot \frac{1}{36} - 2024 \frac{4}{5}\right) \cdot 3 \frac{2}{3} &= \frac{1}{5} & x \cdot \frac{1}{36} &= 2025 \\ \left(x \cdot \frac{1}{36} - 2024 \frac{4}{5}\right) \cdot 3 \frac{2}{3} &= \frac{14}{15} - \frac{3}{15} & x &= 2025 \cdot 36 \\ & & x &= 72\,900 \\ y &= 202\,400 \cdot \left(\frac{3}{2.5} + \frac{3}{5.8} + \frac{3}{8.11} + \frac{3}{11.14} + \frac{3}{14.17} + \frac{3}{17.20}\right) \\ y &= 202\,400 \cdot \left(\frac{5-2}{2.5} + \frac{8-5}{5.8} + \frac{11-8}{8.11} + \frac{14-11}{11.14} + \frac{17-14}{14.17} + \frac{20-17}{17.20}\right) \\ y &= 202\,400 \cdot \left(\frac{5}{2.5} - \frac{2}{2.5} + \frac{8}{5.8} - \frac{5}{5.8} + \frac{11}{8.11} - \frac{8}{8.11} + \frac{14}{11.14} - \frac{11}{11.14} + \frac{17}{14.17} - \frac{14}{14.17} + \frac{20}{17.20} - \frac{17}{17.20}\right) \\ y &= 202\,400 \cdot \left(\frac{1}{2} - \frac{1}{5} + \frac{1}{5} - \frac{1}{8} + \frac{1}{8} - \frac{1}{11} + \frac{1}{11} - \frac{1}{14} + \frac{1}{14} - \frac{1}{17} + \frac{1}{17} - \frac{1}{20}\right) \\ y &= 202\,400 \cdot \left(\frac{1}{2} - \frac{1}{20}\right) \\ y &= 202\,400 \cdot \frac{9}{20} \\ y &= 10\,120.9 \\ y &= 91\,080 \end{aligned}$$

$$x + y = 72\,900 + 91\,080 = 163\,980.$$

*Оценяване.* За намиране на първата вноска  $x = 72\,900$  евро (**5 точки**). За намиране на втората вноска  $y = 91\,080$  евро (**4 точки**). За намиране на платената от господин Данков сума  $163\,980$  евро (**1 точка**).

задача	1	2	3	4	5	6	7
отговор	Е	С	Д	А	В	476	163 980