

Vypočítejte

$$\frac{\frac{2}{5} \cdot 0,5 + \left(\frac{1}{4}\right)^2 : \frac{3}{8}}{\frac{2}{3} \cdot \frac{1}{4} \cdot \left(-\frac{2}{5}\right)}$$

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Řešení

$$\begin{aligned} \frac{\frac{2}{5} \cdot 0,5 + \left(\frac{1}{4}\right)^2 : \frac{3}{8}}{\frac{2}{3} \cdot \frac{1}{4} \cdot \left(-\frac{2}{5}\right)} &= \frac{\frac{2}{5} \cdot \frac{5}{10} + \frac{1}{16} : \frac{3}{8}}{\frac{2}{3} \cdot \frac{1}{4} \cdot \left(-\frac{2}{5}\right)} = \frac{\frac{2}{5} \cdot \frac{5}{10} + \frac{1}{16} \cdot \frac{8}{3}}{\frac{2}{3} \cdot \left(-\frac{2}{5}\right)} = \\ &= \frac{\frac{2}{5} \cdot \frac{2}{4} \cdot \left(-\frac{2}{5}\right)}{\frac{2}{3} \cdot \left(-\frac{2}{5}\right)} = \\ &= \frac{\frac{2}{5} + \frac{2}{6}}{-\frac{2}{15}} = -\frac{6+5}{\frac{2}{15}} = \\ &= -\frac{\frac{11}{30}}{\frac{2}{15}} = -\frac{11}{30} \cdot \frac{15}{2} = -\frac{11}{2} = \underline{\underline{-5,5}} \\ &= \underline{\underline{-5\frac{1}{2}}} \end{aligned}$$