

Preveri svoje znanje

o ulomkih

Te naloge so za dva dni. Naslednje dobite v četrtek.

1. naloga

Dopolni.

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

$$2\frac{1}{2} \cdot \square = 1$$

$$1\frac{2}{7} - \square = 1$$

$$\frac{3}{5} : \square = 1$$

2. naloga

OPOMBA: Rezultate zapiši s celim delom in **okrajšanim ulomkom**.

a) $1\frac{1}{5} + 4\frac{3}{5} =$

b) $5\frac{2}{3} - \frac{1}{3} =$

c) $3\frac{1}{3} + 3\frac{5}{9} =$

d) $4 - \frac{1}{4} =$

e) $4\frac{2}{3} - 2\frac{1}{4} =$

$$f) 12\frac{7}{17} - 7\frac{11}{17} =$$

$$g) \frac{4}{5} \cdot 4 =$$

$$h) \frac{1}{2} \cdot \frac{6}{7} =$$

$$i) 5\frac{2}{6} \cdot 1\frac{2}{8} =$$

$$j) \frac{35}{16} : 5 =$$

$$k) 2\frac{1}{3} : 3\frac{1}{9} =$$

..... Znam za več

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

$$m) 6,3 : \left(4\frac{4}{5} - 4,5\right) =$$

$$n) 5\frac{1}{4} + 1\frac{1}{3} \cdot 2\frac{1}{4} - 3\frac{5}{8} =$$

$$o) 6\frac{2}{5} - 3,2 : 2\frac{2}{5} + 1,5 =$$

3. naloga

Zapiši izraz in izračunaj njegovo vrednost.

Vsoto ulomkov $\frac{1}{4}$ in $\frac{4}{7}$ **zmanjšaj** za **produkt** istih dveh števil.

Rešitve

1.

$$\begin{array}{ll} \frac{3}{4} + \boxed{\frac{1}{4}} = 1 & 2\frac{1}{2} \cdot \boxed{\frac{2}{5}} = 1 \\ 1\frac{2}{7} - \boxed{\frac{2}{7}} = 1 & \text{AMA } \frac{3}{5} : \boxed{\frac{3}{5}} = 1 \end{array}$$

2.

$$\text{a) } 1\frac{1}{5} + 4\frac{3}{5} = 5\frac{4}{5}$$

$$\text{b) } 5\frac{2}{3} - \frac{1}{3} = 5\frac{1}{3}$$

$$\text{c) } 3\frac{1}{3} + 3\frac{5}{9} = 3\frac{3}{9} + 3\frac{5}{9} = 6\frac{8}{9}$$

$$\text{d) } 4 - \frac{1}{4} = 3\frac{4}{4} - \frac{1}{4} = 3\frac{3}{4}$$

$$\text{e) } 4\frac{2}{3} - 2\frac{1}{4} = 4\frac{8}{12} - 2\frac{3}{12} = 2\frac{5}{12}$$

$$\text{f) } 12\frac{7}{17} - 7\frac{11}{17} = 11\frac{24}{17} - 7\frac{11}{17} = 4\frac{13}{17}$$

$$\text{g) } \frac{4}{5} \cdot 4 = \frac{4 \cdot 4}{5} = \frac{16}{5} = 3\frac{1}{5}$$

$$\text{h) } \frac{1}{2} \cdot \frac{6}{7} = \frac{1 \cdot \cancel{6} \cdot 3}{\cancel{2} \cdot 7 \cdot 1} = \frac{3}{7}$$

$$i) 5\frac{2}{6} : 1\frac{2}{8} = \frac{\cancel{32} \cdot \cancel{10} \cdot 4 \cdot 5}{\cancel{6} \cdot \cancel{8} \cdot 1 \cdot 3} = \frac{20}{3} = 6\frac{2}{3}$$

$$j) \frac{35}{16} : 5 = \frac{\cancel{35} \cdot 7}{16 \cdot \cancel{5} \cdot 1} = \frac{7}{16}$$

$$k) 2\frac{1}{3} : 3\frac{1}{9} = \frac{\cancel{7} \cdot \cancel{9} \cdot 3 \cdot 1}{\cancel{3} \cdot \cancel{27} \cdot 1 \cdot 4} = \frac{3}{4}$$

...znam za več

$$l) \frac{2}{5} \cdot \left(\frac{1}{2} + \frac{3}{4}\right) - \frac{1}{3} \cdot \frac{1}{5} = \frac{2}{5} \cdot \left(\frac{2}{4} + \frac{3}{4}\right) - \frac{1 \cdot \cancel{6} \cdot 2}{\cancel{3} \cdot 5 \cdot 1} = \frac{\cancel{4} \cdot \cancel{8} \cdot 1 \cdot 1}{\cancel{8} \cdot 4 \cdot 1 \cdot 2} - \frac{2}{5} =$$

$$= \frac{1}{2} - \frac{2}{5} = \frac{5}{10} - \frac{4}{10} = \frac{1}{10}$$

$$m) 6,3 : \left(4\frac{4}{5} - 4,5\right) = 6,3 : \left(4\frac{4}{5} - 4\frac{5}{10}\right) = 6,3 : \left(4\frac{8}{10} - 4\frac{5}{10}\right) =$$

$$= \frac{\cancel{63} \cdot \cancel{10} \cdot 1 \cdot 21}{10 \cdot \cancel{3} \cdot 1 \cdot 1} = 21$$

$$n) 5\frac{1}{4} + 1\frac{1}{3} \cdot 2\frac{1}{4} - 3\frac{5}{8} = 5\frac{1}{4} + \frac{\cancel{4} \cdot \cancel{8} \cdot 1 \cdot 3}{\cancel{3} \cdot \cancel{4} \cdot 1 \cdot 1} - 3\frac{5}{8} = 5\frac{1}{4} + 3 - 3\frac{5}{8} =$$

$$= 8\frac{1}{4} - 3\frac{5}{8} = 8\frac{2}{8} - 3\frac{5}{8} = 7\frac{10}{8} - 3\frac{5}{8} = 4\frac{5}{8}$$

$$o) 6\frac{2}{5} - 3,2 : 2\frac{2}{5} + 1,5 = 6\frac{2}{5} - \frac{\cancel{32} \cdot \cancel{5} \cdot 1 \cdot 81}{10 \cdot \cancel{12} \cdot 2 \cdot 3 \cdot 1} + \frac{5}{10} = 6\frac{2}{5} - \frac{4}{3} + 1\frac{5}{10} =$$

$$= 6\frac{2}{5} - 1\frac{1}{3} + 1\frac{5}{10} = 6\frac{12}{30} - 1\frac{10}{30} + 1\frac{15}{30} = 5\frac{2}{30} + 1\frac{15}{30} = 6\frac{17}{30}$$

3.

Izraz:

$$\left(\frac{1}{4} + \frac{4}{7}\right) - \frac{1}{4} \cdot \frac{4}{7} =$$

$$= \left(\frac{7}{28} + \frac{16}{28}\right) - \frac{1 \cdot \cancel{4} \cdot 1}{\cancel{4} \cdot 7 \cdot 1} = \frac{23}{28} - \frac{1}{7} = \frac{23}{28} - \frac{4}{28} = \frac{19}{28}$$