

REŠITVE

1. Seštej ali odštej!

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

$$\text{b)} \frac{4}{9} - \frac{2}{9} = \frac{2}{9}$$

$$\text{c)} \frac{7}{15} + \frac{6}{15} = \frac{13}{15}$$

$$\text{d)} \frac{1}{4} + \frac{1}{4} = \frac{2:2}{4:2} = \frac{1}{2}$$

$$\text{e)} \frac{11}{12} - \frac{3}{12} = \frac{8:4}{12:4} = \frac{2}{3}$$

$$\text{f)} \frac{5}{12} + \frac{5}{12} = \frac{10:2}{12:2} = \frac{5}{6}$$

$$\text{g)} \frac{4}{7} + \frac{3}{7} = \frac{7}{7} = 1$$

$$\text{h)} \frac{4}{5} + \frac{2}{5} = \frac{6}{5} = 1\frac{1}{5}$$

$$\text{i)} \frac{1}{6} + \frac{7}{6} = \frac{8:2}{6:2} = \frac{4}{3} = 1\frac{1}{3}$$

$$\text{j)} 2 + \frac{1}{7} = 2\frac{1}{7}$$

$$\text{k)} 1\frac{1}{4} + 3\frac{1}{4} = 4\frac{2:2}{4:2} = 4\frac{1}{2}$$

$$\text{l)} 1\frac{5}{8} + 1\frac{5}{8} = 2\frac{10:2}{8:2} = 2\frac{5}{4} = 3\frac{1}{4}$$

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

$$\text{n)} 9 - 3\frac{1}{7} = 8\frac{7}{7} - 3\frac{1}{7} = 5\frac{6}{7}$$

$$\text{o)} 5\frac{3}{7} - \frac{1}{7} = 5\frac{2}{7}$$

$$\text{p)} 12\frac{3}{5} - 6\frac{4}{5} = 11\frac{8}{5} - 6\frac{4}{5} = 5\frac{4}{5}$$

$$\text{q)} \frac{1}{5} + \frac{3}{10} = \frac{1 \cdot 2}{5 \cdot 2} + \frac{3}{10} = \frac{2}{10} + \frac{3}{10} = \frac{5:5}{10:5} = \frac{1}{2}$$

$$\text{r)} \frac{3}{7} + \frac{1}{3} = \frac{3 \cdot 3}{7 \cdot 3} + \frac{1 \cdot 7}{3 \cdot 7} = \frac{9}{21} + \frac{7}{21} = \frac{16}{21}$$

$$\text{s)} \frac{1}{9} + \frac{5}{6} = \frac{1 \cdot 2}{9 \cdot 2} + \frac{5 \cdot 3}{6 \cdot 3} = \frac{2}{18} + \frac{15}{18} = \frac{17}{18}$$

$$\text{t)} 3\frac{2}{5} + \frac{4}{7} = 3\frac{2 \cdot 7}{5 \cdot 7} + \frac{4 \cdot 5}{7 \cdot 5} = 3\frac{14}{35} + \frac{20}{35} = 3\frac{34}{35}$$

$$\text{u)} \frac{3}{5} + 3\frac{1}{2} + \frac{1}{2} = \frac{3}{5} + 3\frac{2}{2} = \frac{3}{5} + 4 = 4\frac{3}{5}$$

$$\text{v)} 4\frac{1}{6} + 7\frac{2}{3} + 5\frac{5}{6} = 9\frac{6}{6} + 7\frac{2}{3} = 10 + 7\frac{2}{3} = 17\frac{2}{3}$$

$$\text{w)} \frac{3}{3} - \frac{7}{12} = \frac{3 \cdot 4}{3 \cdot 4} - \frac{7}{12} = \frac{12}{12} - \frac{7}{12} = \frac{5}{12}$$

$$\text{x)} \frac{3}{5} - \frac{1}{2} = \frac{3 \cdot 2}{5 \cdot 2} - \frac{1 \cdot 5}{2 \cdot 5} = \frac{6}{10} - \frac{5}{10} = \frac{1}{10}$$

$$\text{y)} \frac{5}{6} - \frac{3}{4} = \frac{5 \cdot 2}{6 \cdot 2} - \frac{3 \cdot 3}{4 \cdot 3} = \frac{10}{12} - \frac{9}{12} = \frac{1}{12}$$

$$\text{z)} 7\frac{1}{3} - \frac{2}{5} = 7\frac{1 \cdot 5}{3 \cdot 5} - \frac{2 \cdot 3}{5 \cdot 3} = 7\frac{5}{15} - \frac{6}{15} = 6\frac{20}{15} - \frac{6}{15} = 6\frac{14}{15}$$

2. Prvi dan so obrali $\frac{13}{25}$ grozdja, drugi dan pa $\frac{2}{25}$ manj kot prvi dan. Koliko grozdja so obrali in koliko ga je še ostalo na trtah?

$$\text{1. dan: } \frac{13}{25}$$

$$\text{Odgovor: Obrali so } \frac{11}{25} \text{ grozdja, ostane pa ga } \frac{14}{25}.$$

$$\text{2. dan: } \frac{13}{25} - \frac{2}{25} = \frac{11}{25}$$

$$\text{Ostane: } 1 - \frac{11}{25} = \frac{25}{25} - \frac{11}{25} = \frac{14}{25}$$

3. Matjaž je prvi dan prebral $\frac{1}{3}$ knjige, drugi dan $\frac{2}{5}$ knjige, za tretji dan pa mu je ostalo še 144 strani.

a) Kolikšen del knjige je prebral tretji dan?

$$1 - \frac{1}{3} - \frac{2}{5} = \frac{15}{15} - \frac{1 \cdot 5}{3 \cdot 5} - \frac{2 \cdot 3}{5 \cdot 3} = \frac{15}{15} - \frac{5}{15} - \frac{6}{15} = \frac{4}{15}$$

Odgovor: Tretji dan je prebral $\frac{4}{15}$ knjige.

b) Kateri dan je prebral največ?

1. dan $\frac{5}{15}$, 2. dan $\frac{6}{15}$, 3. dan $\frac{4}{15}$, največ je prebral 2. dan.

c) Koliko strani je prebral prvi dan?

$$\frac{4}{15} \text{ knjige je } 144 \text{ strani} \Rightarrow \frac{1}{15} \text{ knjige je } 36 \text{ strani} \Rightarrow \frac{5}{15} \text{ knjige je } 180 \text{ strani.}$$

$$\begin{array}{r} 144 : 4 = 36 \\ 24 \\ 0 \end{array} \qquad \frac{36 \cdot 5}{180}$$

Odgovor: Prvi dan je prebral 180 strani.

4. Množi ali deli!

a) $\frac{1}{7} \cdot 0 = 0$

b) $\frac{2}{3} \cdot 1 = \frac{2}{3}$

c) $\frac{5}{3} \cdot 9 = \frac{5 \cdot 9 \cdot 3}{3 \cdot 1 \cdot 1} = \frac{15}{1} = 15$

d) $1\frac{1}{21} \cdot 1\frac{3}{11} = \frac{22 \cdot 14 \cdot 2 \cdot 2}{21 \cdot 11 \cdot 1 \cdot 3} = \frac{4}{3} = 1\frac{1}{3}$

e) $8\frac{9}{10} \cdot 15 = \frac{89 \cdot 15 \cdot 3}{10 \cdot 1 \cdot 2} = \frac{267}{2} = 133\frac{1}{2}$

f) $5 \cdot 7\frac{3}{10} = \frac{5 \cdot 73 \cdot 1}{1 \cdot 10 \cdot 2} = \frac{73}{2} = 36\frac{1}{2}$

g) $\frac{15}{16} \cdot \frac{24}{35} = \frac{15 \cdot 24 \cdot 3 \cdot 3}{16 \cdot 35 \cdot 7 \cdot 2} = \frac{9}{14}$

h) $\frac{1}{5} \cdot \frac{3}{7} \cdot \frac{1}{2} = \frac{1 \cdot 3 \cdot 1}{5 \cdot 7 \cdot 2} = \frac{3}{70}$

i) $3\frac{2}{3} \cdot \frac{5}{11} \cdot 2\frac{3}{4} = \frac{11 \cdot 5 \cdot 11 \cdot 1}{3 \cdot 11 \cdot 4 \cdot 1} = \frac{55}{12} = 4\frac{7}{12}$

5. Trak, dolg $5\frac{1}{2}$ m, razdelimo na tri dele, tako da je prvi del $\frac{1}{4}$ celotnega traku, drugi del pa $\frac{4}{5}$ prvega dela. Koliko je dolg tretji del traku?

$$\frac{1}{4} \text{ od } 5\frac{1}{2} \text{ m} = \frac{1 \cdot 11}{4 \cdot 2} = \frac{11}{8} \text{ m} = 1\frac{3}{8} \text{ m}$$

$$5\frac{1 \cdot 20}{2 \cdot 20} - 1\frac{3 \cdot 5}{8 \cdot 5} - 1\frac{1 \cdot 2}{10 \cdot 2} = 5\frac{20}{40} - 1\frac{15}{40} - 1\frac{2}{40} = 3\frac{3}{40}$$

$$\frac{4}{5} \text{ od } 1\frac{3}{8} \text{ m} = \frac{4 \cdot 11 \cdot 1}{5 \cdot 8 \cdot 2} = \frac{11}{10} \text{ m} = 1\frac{1}{10} \text{ m}$$

Odgovor: Tretji del traku je dolg $3\frac{3}{40}$ m.