

$$\textcircled{1} \text{ a) } \frac{7}{8} + \frac{6}{8} = \frac{13}{8} = 1\frac{5}{8}$$

$$\text{b) } 4 + 2\frac{3}{5} = 6\frac{3}{5}$$

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

$$= \frac{9}{24} + \frac{20}{24} =$$

$$\text{d) } \frac{8}{9} - \frac{5}{6} =$$

$$= \frac{16}{18} - \frac{15}{18} =$$

$$= \frac{1}{18}$$

$$\text{e) } 8 - \frac{3}{5} =$$

$$= 7\frac{2}{5}$$

$$\text{f) } 15\frac{1}{4} - 6\frac{2}{3} =$$

$$= 15\frac{3}{12} - 6\frac{8}{12} =$$

$$= 14\frac{15}{12} - 6\frac{8}{12} =$$

$$= 8\frac{7}{12}$$

$$= \frac{29}{24} = 1\frac{5}{24}$$

$$\textcircled{2} \text{ a) } x - \frac{2}{3} = 3\frac{1}{4}$$

$$x = 3\frac{1}{4} + \frac{2}{3}$$

$$x = 3\frac{3}{12} + \frac{8}{12}$$

$$x = 3\frac{11}{12}$$

$$\text{b) } m \cdot 2\frac{1}{3} = 8\frac{1}{3}$$

$$m = 8\frac{1}{3} : 2\frac{1}{3}$$

$$m = \frac{25 \cdot 3 \cdot 1}{3 \cdot 7 \cdot 1} = \frac{25}{7}$$

$$m = 3\frac{4}{7}$$

$$\textcircled{3} \text{ a) } (5\frac{1}{2} - 2\frac{5}{9}) + (3\frac{1}{6} - 2\frac{2}{3}) =$$

$$= (5\frac{9}{18} - 2\frac{10}{18}) + (3\frac{1}{6} - 2\frac{4}{6}) =$$

$$= (4\frac{27}{18} - 2\frac{10}{18}) + (2\frac{7}{6} - 2\frac{4}{6}) =$$

$$= 2\frac{17}{18} + \frac{3}{6} =$$

$$= 2\frac{17}{18} + \frac{9}{18} =$$

$$= 2\frac{26}{18} = 3\frac{8}{18} = 3\frac{4}{9}$$

$$\text{b) } (8\frac{1}{2} + 1\frac{3}{4}) - (6\frac{3}{4} - 2\frac{5}{6}) =$$

$$= (8\frac{2}{4} + 1\frac{3}{4}) - (6\frac{9}{12} - 2\frac{10}{12}) =$$

$$= 9\frac{5}{4} - (5\frac{21}{12} - 2\frac{10}{12}) =$$

$$= 9\frac{15}{12} - 3\frac{11}{12} =$$

$$= 6\frac{4}{12} = 6\frac{1}{3}$$

$$\textcircled{4} \text{ a) } \frac{5}{8} \cdot \frac{20}{25} = \frac{5 \cdot 20 \cdot 1 \cdot 5 \cdot 1}{8 \cdot 25 \cdot 5 \cdot 2 \cdot 1} = \frac{1}{2}$$

$$\text{c) } \frac{5}{6} \cdot 2\frac{2}{3} \cdot 3\frac{3}{4} = \frac{5 \cdot 8 \cdot 15 \cdot 3 \cdot 5 \cdot 1}{6 \cdot 3 \cdot 4 \cdot 1 \cdot 2 \cdot 1} = \frac{25}{3} = 8\frac{1}{3}$$

$$\text{b) } 2\frac{4}{7} \cdot 2\frac{5}{8} = \frac{18 \cdot 21 \cdot 9 \cdot 3}{7 \cdot 8 \cdot 4 \cdot 1} = \frac{27}{4} = 6\frac{3}{4}$$

$$\text{d) } 0,4 \cdot \frac{5}{2} \cdot 3\frac{1}{5} = \frac{4 \cdot 5 \cdot 16 \cdot 2 \cdot 1 \cdot 8}{10 \cdot 2 \cdot 8 \cdot 5 \cdot 1 \cdot 1} = \frac{16}{5} = 3\frac{1}{5}$$

$$\textcircled{5} \text{ a) } \frac{12}{15} \cdot \frac{20}{25} = \frac{12 \cdot 25 \cdot 3 \cdot 5 \cdot 1 \cdot 1}{15 \cdot 20 \cdot 5 \cdot 3 \cdot 1 \cdot 1} = 1$$

$$\text{c) } 8 : \frac{3}{4} = \frac{8 \cdot 4}{1 \cdot 3} = \frac{32}{3} = 10\frac{2}{3}$$

$$\text{b) } 3\frac{1}{3} : 4\frac{1}{6} = \frac{10 \cdot 6 \cdot 2 \cdot 2}{3 \cdot 25 \cdot 5 \cdot 1} = \frac{4}{5}$$

$$\text{d) } 6\frac{4}{5} : 6 = \frac{34 \cdot 1 \cdot 17}{5 \cdot 6 \cdot 3} = \frac{17}{15} = 1\frac{2}{15}$$

$$\begin{aligned}
 \textcircled{6} \quad & 4\frac{4}{5} + 4\frac{2}{3} \cdot \frac{5}{7} = \\
 & = 4\frac{4}{5} + \frac{4 \cdot 5 \cdot 2}{3 \cdot 7 \cdot 1} = \\
 & = 4\frac{4}{5} + \frac{10}{3} = \\
 & = 4\frac{4}{5} + 3\frac{1}{3} = \\
 & = 4\frac{12}{15} + 3\frac{5}{15} = \\
 & = 7\frac{17}{15} = \underline{\underline{8\frac{2}{15}}}
 \end{aligned}$$

$$\begin{aligned}
 \text{b) } & 6\frac{1}{4} : (5\frac{2}{3} - 2,75) + 4\frac{2}{3} = \\
 & = 6\frac{1}{4} : (5\frac{2}{3} - 2\frac{3}{4}) + 4\frac{2}{3} = \\
 & = 6\frac{1}{4} : (5\frac{8}{12} - 2\frac{9}{12}) + 4\frac{2}{3} = \\
 & = 6\frac{1}{4} : (4\frac{20}{12} - 2\frac{9}{12}) + 4\frac{2}{3} = \\
 & = 6\frac{1}{4} : 2\frac{11}{12} + 4\frac{2}{3} = \\
 & = \frac{25 \cdot 12 \cdot 5 \cdot 3}{4 \cdot 35 \cdot 7 \cdot 1} + 4\frac{2}{3} = \\
 & = \frac{15}{7} + 4\frac{2}{3} = \\
 & = 2\frac{1}{7} + 4\frac{2}{3} = \\
 & = 2\frac{3}{21} + 4\frac{14}{21} = \\
 & = \underline{\underline{6\frac{17}{21}}}
 \end{aligned}$$

$$\begin{aligned}
 \textcircled{7} \quad & 1\frac{1}{2} + \frac{1}{5} + \frac{3}{4} + 2\frac{3}{5} + 4,7 = \\
 & = 1\frac{10}{20} + \frac{4}{20} + \frac{15}{20} + 2\frac{12}{20} + 4\frac{14}{20} = \\
 & = 7\frac{55}{20} = 9\frac{15}{20} = \underline{\underline{9\frac{3}{4} \text{ kg}}}
 \end{aligned}$$

Nakupovalna vrečka je bila težka  $9\frac{3}{4}$  kg.

$$\begin{aligned}
 \textcircled{8} \quad & \text{Natalija: } 14\frac{2}{3} \\
 & \text{Kaja: } 14\frac{2}{3} - 4\frac{5}{6} = \\
 & = 14\frac{4}{6} - 4\frac{5}{6} = \\
 & = 13\frac{10}{6} - 4\frac{5}{6} = \underline{\underline{9\frac{5}{6}}}
 \end{aligned}$$

$$\begin{aligned}
 \text{Skupaj: } & 14\frac{2}{3} + 9\frac{5}{6} = \\
 & = 14\frac{4}{6} + 9\frac{5}{6} = \\
 & = 23\frac{9}{6} = 24\frac{3}{6} = \underline{\underline{24\frac{1}{2}}}
 \end{aligned}$$

Kaja je stara  $9\frac{5}{6}$  let,  
skupaj  $24\frac{1}{2}$  let.

$$\begin{aligned}
 \textcircled{9} \quad & \text{1. dan: } \frac{1}{5} \text{ knjige} = \frac{1}{5} \text{ od } 400 = \frac{1 \cdot 400}{5 \cdot 1} = \underline{\underline{80 \text{ strani}}}; \text{ ostanek } 320 \text{ strani} \\
 & \text{2. dan: } \frac{3}{5} \text{ od } 320 = \frac{3 \cdot 320 \cdot 64}{5 \cdot 1 \cdot 1} = \frac{192}{1} = \underline{\underline{192 \text{ strani}}}
 \end{aligned}$$

$$\begin{aligned}
 \text{3. dan: } & 400 - (80 + 192) = \\
 & = 400 - 272 = \\
 & = \underline{\underline{128 \text{ strani}}}
 \end{aligned}$$

$$\begin{aligned}
 \textcircled{10} \quad & \text{vsinoji: } x \\
 & \text{1. teden: } \frac{2}{9} \text{ nojev} = \frac{2}{9} \cdot x; \text{ ostanek: } \frac{7}{9}x \\
 & \text{2. teden: } \frac{3}{7} \text{ ostanek} = \frac{3}{7} \text{ od } \frac{7}{9}x = \frac{3 \cdot 7 \cdot 1 \cdot 1}{7 \cdot 9 \cdot 3 \cdot 1} = \frac{1}{3}x \\
 & \text{3. teden: } 20 \text{ nojev}
 \end{aligned}$$

$$\begin{aligned}
 \text{1. teden} + \text{2. teden:} & \\
 & = \frac{2}{9}x + \frac{1}{3}x = \\
 & = \frac{2}{9}x + \frac{3}{9}x = \\
 & = \underline{\underline{\frac{5}{9}x}}
 \end{aligned}$$

$$\begin{aligned}
 \text{3. teden:} & \\
 & \frac{9}{9}x - \frac{5}{9}x = \underline{\underline{\frac{4}{9}x}} \\
 \text{3. teden} & = 20 \text{ nojev} \\
 \frac{4}{9} \cdot x & = 20 \\
 x & = 20 : \frac{4}{9} \\
 x & = \frac{20 \cdot 9 \cdot 5}{1 \cdot 4 \cdot 1} = \underline{\underline{45}}
 \end{aligned}$$

Imel je 45 nojev.