

Aufgabenblatt Brüche subtrahieren

Lösungen

$$1. \quad \frac{7}{13} - \frac{13}{26} = \frac{7 \cdot 2}{13 \cdot 2} - \frac{13}{26} = \frac{14}{26} - \frac{13}{26} = \frac{1}{26}$$

$$2. \quad \frac{92}{161} - \frac{123}{287} = \frac{92 \cdot 23}{161 \cdot 23} - \frac{123 \cdot 41}{287 \cdot 41} = \frac{4}{7} - \frac{3}{7} = \frac{1}{7}$$

$$3. \quad \frac{7}{9} - \frac{1}{4} = \frac{7 \cdot 4}{9 \cdot 4} - \frac{1 \cdot 9}{4 \cdot 9} = \frac{28}{36} - \frac{9}{36} = \frac{19}{36}$$

$$4. \quad \frac{8}{19} - \frac{42}{114} = \frac{8}{19} - \frac{42 \cdot 6}{114 \cdot 6} = \frac{8}{19} - \frac{7}{19} = \frac{1}{19}$$

$$5. \quad \frac{12}{17} - \frac{40}{68} = \frac{12}{17} - \frac{40 \cdot 4}{68 \cdot 4} = \frac{12}{17} - \frac{10}{17} = \frac{2}{17}$$

$$6. \quad \frac{12}{13} - \frac{1}{3} = \frac{12 \cdot 3}{13 \cdot 3} - \frac{1 \cdot 13}{3 \cdot 13} = \frac{36}{39} - \frac{13}{39} = \frac{23}{39}$$

$$7. \quad \frac{10}{11} - \frac{125}{275} = \frac{10 \cdot 50}{11 \cdot 50} - \frac{125 \cdot 2}{275 \cdot 2} = \frac{500}{550} - \frac{250}{550} = \frac{250}{550} = \frac{250 \cdot 50}{550 \cdot 50} = \frac{5}{11}$$

$$8. \quad \frac{18}{22} - \frac{2}{3} = \frac{18 \cdot 3}{22 \cdot 3} - \frac{2 \cdot 22}{3 \cdot 22} = \frac{54}{66} - \frac{44}{66} = \frac{10}{66} = \frac{10 \cdot 2}{66 \cdot 2} = \frac{5}{33}$$

$$9. \quad \frac{21}{30} - \frac{2}{9} = \frac{21 \cdot 3}{30 \cdot 3} - \frac{2 \cdot 10}{9 \cdot 10} = \frac{63}{90} - \frac{20}{90} = \frac{43}{90}$$

$$10. \quad \frac{5}{6} - \frac{10}{18} = \frac{5 \cdot 3}{6 \cdot 3} - \frac{10}{18} = \frac{15}{18} - \frac{10}{18} = \frac{5}{18}$$

$$11. \quad \frac{11}{13} - \frac{1}{3} - \frac{4}{12} = \frac{11}{13} - \frac{1}{3} - \frac{4 \cdot 4}{12 \cdot 4} = \frac{11}{13} - \frac{1}{3} - \frac{1}{3} = \frac{11}{13} - \frac{2}{3} = \frac{11 \cdot 3}{13 \cdot 3} - \frac{2 \cdot 13}{3 \cdot 13} = \frac{33}{39} - \frac{26}{39} = \frac{7}{39}$$

$$12. \quad \frac{20}{23} - \frac{2}{6} - \frac{30}{138} = \frac{20 \cdot 6}{23 \cdot 6} - \frac{2}{6} - \frac{30}{138} = \frac{120}{138} - \frac{2}{6} - \frac{30}{138} = \frac{90}{138} - \frac{2}{6} = \frac{90}{138} - \frac{2 \cdot 23}{6 \cdot 23} = \frac{90}{138} - \frac{46}{138} = \frac{44}{138} = \frac{22}{69}$$

$$13. \quad \frac{20}{30} - \frac{3}{12} - \frac{1}{4} = \frac{20}{30} - \frac{3 \cdot 3}{12 \cdot 3} - \frac{1}{4} = \frac{20}{30} - \frac{1}{4} - \frac{1}{4} = \frac{20}{30} - \frac{2}{4} = \frac{20 \cdot 2}{30 \cdot 2} - \frac{2 \cdot 15}{4 \cdot 15} = \frac{40}{60} - \frac{30}{60} = \frac{10}{60} = \frac{10 \cdot 10}{60 \cdot 10} = \frac{1}{6}$$

$$14. \quad \frac{3}{4} - \frac{61}{244} - \frac{206}{412} = \frac{3}{4} - \frac{61 \cdot 61}{244 \cdot 61} - \frac{206 \cdot 103}{412 \cdot 103} = \frac{3}{4} - \frac{1}{4} - \frac{2}{4} = 0$$

$$15. \quad \frac{63}{72} - \frac{1}{3} - \frac{2}{144} = \frac{63}{72} - \frac{1 \cdot 24}{3 \cdot 24} - \frac{2 \cdot 2}{144 \cdot 2} = \frac{63}{72} - \frac{24}{72} - \frac{1}{72} = \frac{38}{72} = \frac{38 \cdot 2}{72 \cdot 2} = \frac{19}{36}$$