

Aufgabe 7

a)

$$\frac{6}{15} \cdot \frac{5}{18} = \frac{2}{5} \cdot \frac{5}{18} = \frac{1 \cdot 1}{1 \cdot 9} = \frac{1}{9}$$

b)

$$\frac{12}{25} \cdot \frac{20}{8} = \frac{12}{25} \cdot \frac{5}{2} = \frac{6 \cdot 1}{5 \cdot 1} = \frac{6}{5} = 1\frac{1}{5}$$

c)

$$\frac{17}{16} \cdot \frac{16}{17} = \frac{1 \cdot 1}{1 \cdot 1} = \frac{1}{1} = 1$$

d)

$$\frac{8}{35} \cdot \frac{70}{16} = \frac{8}{35} \cdot \frac{35}{8} = \frac{1 \cdot 1}{1 \cdot 1} = 1$$

e)

$$\frac{44}{42} \cdot \frac{35}{33} = \frac{22}{21} \cdot \frac{35}{33} = \frac{2 \cdot 35}{21 \cdot 3} = \frac{70}{63} = \frac{10}{9} = 1\frac{1}{9}$$

f)

$$\frac{120}{36} \cdot \frac{72}{360} = \frac{10}{3} \cdot \frac{1}{5} = \frac{2 \cdot 1}{3 \cdot 1} = \frac{2}{3}$$

g)

$$\frac{12}{16} \cdot \frac{8}{24} = \frac{3}{4} \cdot \frac{1}{3} = \frac{1 \cdot 1}{4 \cdot 1} = \frac{1}{4}$$

h)

$$\frac{6}{7} \cdot \frac{14}{20} = \frac{6}{7} \cdot \frac{7}{10} = \frac{3 \cdot 1}{1 \cdot 5} = \frac{3}{5}$$

i)

$$\frac{10}{18} \cdot \frac{16}{25} = \frac{5}{9} \cdot \frac{16}{25} = \frac{1 \cdot 16}{9 \cdot 5} = \frac{16}{45}$$

j)

$$\frac{250}{75} \cdot \frac{45}{30} = \frac{10}{3} \cdot \frac{3}{2} = \frac{5 \cdot 1}{1 \cdot 1} = \frac{5}{1} = 5$$

k)

$$\frac{222}{66} \cdot \frac{121}{11} = \frac{37}{11} \cdot \frac{11}{1} = \frac{37 \cdot 1}{1 \cdot 1} = \frac{37}{1} = 37$$

l)

$$\frac{210}{260} \cdot \frac{130}{70} = \frac{21}{26} \cdot \frac{13}{7} = \frac{3 \cdot 1}{2 \cdot 1} = \frac{3}{2} = 1\frac{1}{2}$$

Aufgabe 8

a)

$$\frac{2}{5} \cdot \frac{13}{15} = \frac{2 \cdot 13}{5 \cdot 15} = \frac{26}{75}$$

b)

$$\frac{11}{20} \cdot \frac{7}{10} = \frac{11 \cdot 7}{20 \cdot 10} = \frac{77}{200}$$

c)

$$\frac{6}{7} \cdot \frac{13}{16} = \frac{3 \cdot 13}{7 \cdot 8} = \frac{39}{56}$$

d)

$$\frac{8}{5} \cdot \frac{18}{25} = \frac{8 \cdot 18}{5 \cdot 25} = \frac{144}{125} = 1\frac{19}{125}$$

e)

$$\frac{2}{3} \cdot \frac{19}{50} = \frac{1 \cdot 19}{3 \cdot 25} = \frac{19}{75}$$

f)

$$\frac{13}{16} \cdot \frac{5}{8} = \frac{13 \cdot 5}{16 \cdot 8} = \frac{65}{128}$$

g)

$$\frac{13}{19} \cdot \frac{19}{13} = \frac{1 \cdot 1}{1 \cdot 1} = \frac{1}{1} = 1$$

h)

$$\frac{3}{12} \cdot \frac{18}{9} = \frac{1 \cdot 3}{2 \cdot 3} = \frac{3}{6} = \frac{1}{2}$$

i)

$$\frac{7}{32} \cdot \frac{16}{9} = \frac{7 \cdot 1}{2 \cdot 9} = \frac{7}{18}$$

j)

$$\frac{25}{6} \cdot \frac{3}{125} = \frac{1 \cdot 1}{2 \cdot 5} = \frac{1}{10}$$

k)

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

l)

$$\frac{21}{26} \cdot \frac{13}{7} = \frac{3 \cdot 1}{2 \cdot 1} = \frac{3}{2} = 1\frac{1}{2}$$