Aufgabe 11

a)

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

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

b)

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

$$\frac{3}{5} \cdot \frac{4}{5} = \frac{3 \cdot 4}{5 \cdot 5} = \frac{12}{25}$$

c)

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

$$\frac{2}{3} \cdot \frac{3}{2} = \frac{2 \cdot 3}{3 \cdot 2} = \frac{6}{6} = 1$$

d)

$$\frac{2}{1} \cdot \frac{2}{3} = \frac{2 \cdot 2}{1 \cdot 3} = \frac{4}{3} = 1\frac{1}{3}$$

$$\frac{4}{1} \cdot \frac{1}{3} = \frac{4 \cdot 1}{1 \cdot 3} = \frac{4}{3} = 1\frac{1}{3}$$

e)

$$\frac{4}{1} \cdot \frac{1}{2} = \frac{4 \cdot 1}{1 \cdot 2} = \frac{4}{2} = 2$$

$$\frac{6}{2} \cdot \frac{2}{3} = \frac{6 \cdot 2}{2 \cdot 3} = \frac{12}{6} = 2$$

f)

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

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