

# Lösungsversuch

S. 97/23

$$a) \frac{2}{5} \cdot \frac{5}{9} = \frac{2}{9}$$

$$b) \frac{3}{4} \cdot \frac{5}{8} = \frac{15}{32}$$

$$c) \frac{5}{4} : \frac{3}{7} = \frac{5}{4} \cdot \frac{7}{3} = \frac{35}{12} = 2 \frac{11}{12}$$

$$d) \frac{3}{7} \cdot \frac{5}{8} = \frac{15}{56}$$

$$e) \frac{2}{3} : \frac{5}{9} = \frac{2}{3} \cdot \frac{9}{5} = \frac{2 \cdot 3 \cdot 3}{3 \cdot 5} = \frac{6}{5} = 1 \frac{1}{5}$$

$$f) \frac{3}{4} : \frac{5}{8} = \frac{3}{4} \cdot \frac{8}{5} = \frac{3 \cdot 2 \cdot 4}{4 \cdot 5} = \frac{6}{5} = 1 \frac{1}{5}$$

$$g) \frac{5}{4} \cdot \frac{3}{7} = \frac{15}{28}$$

$$h) \frac{4}{5} : \frac{2}{7} = \frac{4}{5} \cdot \frac{7}{2} = \frac{2 \cdot 2 \cdot 7}{5 \cdot 2} = \frac{14}{5} = 2 \frac{4}{5}$$

$$i) \frac{7}{9} : \frac{14}{3} = \frac{7}{9} \cdot \frac{3}{14} = \frac{7 \cdot 3}{3 \cdot 3 \cdot 2 \cdot 7} = \frac{1}{6}$$

$$j) \frac{8}{25} \cdot 1 \frac{2}{3} = \frac{8}{25} \cdot \frac{5}{3} = \frac{8 \cdot 5}{5 \cdot 5 \cdot 3} = \frac{8}{15}$$

$$k) \frac{15}{16} : 1 \frac{3}{5} = \frac{15}{16} : \frac{8}{5} = \frac{15}{16} \cdot \frac{5}{8} = \frac{75}{128}$$

$$l) 1 \frac{1}{2} \cdot 1 \frac{1}{4} = \frac{3}{2} \cdot \frac{5}{4} = \frac{15}{8} = 1 \frac{7}{8}$$

$$m) \frac{12}{13} : 1 \frac{1}{5} = \frac{12}{13} : \frac{6}{5} = \frac{12}{13} \cdot \frac{5}{6} = \frac{2 \cdot 6 \cdot 5}{13 \cdot 6} = \frac{10}{13}$$

$$n) 1 \frac{1}{2} : 1 \frac{1}{4} = \frac{3}{2} : \frac{5}{4} = \frac{3}{2} \cdot \frac{4}{5} = \frac{3 \cdot 2 \cdot 2}{2 \cdot 5} = \frac{6}{5} = 1 \frac{1}{5}$$

$$o) 3 \frac{4}{7} \cdot 2 \frac{4}{15} = \frac{25}{7} \cdot \frac{34}{15} = \frac{15 \cdot 5 \cdot 34}{7 \cdot 3 \cdot 5} = \frac{170}{21} = 8 \frac{2}{21}$$

$$p) 5 \frac{4}{9} \cdot 6 \frac{3}{7} = \frac{49}{9} \cdot \frac{45}{7} = \frac{7 \cdot 7 \cdot 5 \cdot 9}{9 \cdot 7} = \frac{35}{1} = 35$$

$$q) 4 \frac{2}{9} : 6 \frac{1}{3} = \frac{38}{9} : \frac{19}{3} = \frac{38}{9} \cdot \frac{3}{19} = \frac{19 \cdot 2 \cdot 3}{3 \cdot 3 \cdot 19} = \frac{2}{3}$$

$$r) 6 \frac{3}{7} : 1 \frac{11}{14} = \frac{45}{7} : \frac{25}{14} = \frac{45}{7} \cdot \frac{14}{25} = \frac{9 \cdot 5 \cdot 7 \cdot 2}{7 \cdot 5 \cdot 5} =$$

$$= \frac{18}{5} = 3 \frac{3}{5}$$

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