

AUFGABEN ZUR DIVISION

- 1 a) $\frac{17}{18} : \frac{11}{18}$ b) $\frac{24}{25} : \frac{16}{25}$ c) $\frac{20}{23} : \frac{15}{23}$
- 2 a) $\frac{4}{9} : \frac{6}{11}$ b) $\frac{9}{11} : \frac{6}{13}$ c) $\frac{8}{11} : \frac{10}{13}$
- 3 a) $\frac{8}{11} : 2$ b) $\frac{3}{5} : 6$ c) $\frac{5}{4} : 7$
- 4 a) $\frac{24}{17} : 36$ b) $3\frac{2}{3} : 5$ c) $8\frac{4}{7} : 4$
- 5 a) $6 : \frac{5}{7}$ b) $11 : \frac{2}{3}$ c) $15 : \frac{10}{11}$

$$1 \quad a) \quad \frac{17}{18} : \frac{11}{18} = \frac{17}{\cancel{18}} \cdot \frac{\cancel{18}}{11} = \frac{17}{11}$$

$$b) \quad \frac{24}{25} : \frac{16}{25} = \frac{24}{\cancel{25}} \cdot \frac{\cancel{25}}{16} = \frac{24}{16} = \frac{3}{2}$$

$$c) \quad \frac{20}{23} : \frac{15}{23} = \frac{\cancel{20}}{\cancel{23}} \cdot \frac{\cancel{23}}{\cancel{15}} = \frac{20}{15} = \frac{4}{3}$$

$$2 \quad a) \quad \frac{4}{9} : \frac{6}{11} = \frac{4}{9} \cdot \frac{11}{6} = \frac{2}{9} \cdot \frac{11}{3} = \frac{22}{27}$$

$$b) \quad \frac{9}{11} : \frac{6}{13} = \frac{9}{11} \cdot \frac{13}{6} = \frac{3}{11} \cdot \frac{13}{2} = \frac{39}{22}$$

$$c) \quad \frac{8}{11} : \frac{10}{13} = \frac{8}{11} \cdot \frac{13}{10} = \frac{4}{11} \cdot \frac{13}{5} = \frac{52}{55}$$

$$3 \quad a) \quad \frac{8}{11} : 2 = \frac{8}{11} : \frac{2}{1} = \frac{\cancel{8}}{\cancel{11}} \cdot \frac{1}{\cancel{2}} = \frac{4}{11}$$

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

$$c) \quad \frac{5}{4} : 7 = \frac{5}{4} : \frac{7}{1} = \frac{5}{4} \cdot \frac{1}{7} = \frac{5}{28}$$

$$4 \quad a) \quad \frac{24}{17} : 36 = \frac{24}{17} : \frac{36}{1} = \frac{\cancel{24}}{\cancel{17}} \cdot \frac{1}{\cancel{36}} = \frac{2}{17} \cdot \frac{1}{3} = \frac{2}{51}$$

$$b) \quad 3\frac{2}{3} : 5 = \frac{11}{3} : \frac{5}{1} = \frac{11}{3} \cdot \frac{1}{5} = \frac{11}{15}$$

$$c) \quad 8\frac{4}{7} : 4 = \frac{60}{7} : \frac{4}{1} = \frac{\cancel{60}}{\cancel{7}} \cdot \frac{1}{\cancel{4}} = \frac{15}{7}$$

$$5 \quad a) \quad 6 : \frac{5}{7} = \frac{6}{1} : \frac{5}{7} = \frac{6}{1} \cdot \frac{7}{5} = \frac{42}{5}$$

$$b) \quad 11 : \frac{2}{3} = \frac{11}{1} : \frac{2}{3} = \frac{11}{1} \cdot \frac{3}{2} = \frac{33}{2}$$

$$c) \quad 15 : \frac{10}{11} = \frac{15}{1} : \frac{10}{11} = \frac{15}{1} \cdot \frac{11}{10} = \frac{3}{1} \cdot \frac{11}{2} = \frac{33}{2}$$