

S. 83/6

$$a) 1 : \frac{2}{3} = \frac{1}{1} \cdot \frac{3}{2} = \frac{3}{2}$$

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

(Kürzen, nicht multiplizieren!)

$$c) -1 \frac{1}{4} : 5 = -\frac{5}{4} : \frac{5}{1} = -\frac{5}{4} \cdot \frac{1}{5} = -\frac{1}{4}$$

Kürzen!

$$d) 8 : \frac{4}{7} = 8 \cdot \frac{7}{4} = \frac{8 \cdot 7}{4} = 14$$

$$e) 9 : \frac{15}{12} = 9 \cdot \frac{12}{15} = \frac{9 \cdot 12}{15} = \frac{9 \cdot 4}{5} = \frac{36}{5}$$

$$f) 12 : 3 \frac{3}{7} = 12 : \frac{24}{7} = \frac{12 \cdot 7}{24} = \frac{7}{2}$$

$$g) 6 : 3 \frac{3}{4} = 6 : \frac{15}{4} = \frac{6 \cdot 4}{15} = \frac{2 \cdot 4}{5} = \frac{8}{5}$$

$$h) 7 \frac{1}{3} : (-28) = -\frac{22}{3} \cdot \frac{1}{28} = -\frac{11}{3 \cdot 14} = -\frac{11}{42}$$

S. 84/12

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

Kürzen!

$$b) \frac{\frac{2}{5}}{\frac{3}{4}} = \frac{2}{5} \cdot \frac{4}{3} = \frac{8}{15}$$

$$c) -\frac{\frac{3}{10}}{\frac{5}{20}} = -\frac{3}{8} \cdot \frac{10}{5} = -\frac{3}{8} \cdot \frac{2}{1} = -\frac{3}{4}$$

$$d) \left(\frac{1}{7}\right)^{-2} = \frac{1}{\left(\frac{1}{7}\right)^2} = 1 : \frac{1}{49} = 49$$

$$e) \frac{\frac{4}{5}}{\frac{2}{3}} = \frac{4}{5} \cdot \frac{3}{2} = \frac{4}{3}$$

$$f) -\frac{\frac{3}{6}}{\frac{8}{6}} = -\frac{3}{8} \cdot \frac{1}{6} = -\frac{1}{8 \cdot 2} = -\frac{1}{16}$$

$$g) \frac{\frac{5}{2}}{\frac{3}{2}} = 5 \cdot \frac{3}{2} = \frac{15}{2}$$

$$h) \left(\frac{1}{3}\right)^{-4} = \frac{1}{\left(\frac{1}{3}\right)^4} = 1 : \left(\frac{1}{3}\right)^4 = 1 : \frac{1}{81} =$$
$$= 1 \cdot \frac{81}{1} = 81$$