

Brüche 10

(Lösung)

Multiplizieren und Dividieren

1. Multipliziere

$$\frac{6}{12} \cdot \frac{5}{15} = \frac{1}{2} \cdot \frac{1}{3} = \frac{1}{6}$$

$$\frac{14}{24} \cdot \frac{12}{28} = \frac{1}{2} \cdot \frac{1}{2} = \frac{1}{4}$$

$$\frac{12}{15} \cdot \frac{3}{6} = \frac{2}{5} \cdot \frac{1}{1} = \frac{2}{5}$$

$$\frac{8}{14} \cdot \frac{7}{24} = \frac{1}{2} \cdot \frac{1}{3} = \frac{1}{6}$$

$$\frac{4}{21} \cdot \frac{7}{16} = \frac{1}{3} \cdot \frac{1}{4} = \frac{1}{12}$$

$$\frac{4}{20} \cdot \frac{12}{20} = \frac{1}{5} \cdot \frac{3}{5} = \frac{3}{25}$$

$$\frac{12}{14} \cdot \frac{14}{18} = \frac{2}{1} \cdot \frac{1}{3} = \frac{2}{3}$$

$$\frac{7}{11} \cdot \frac{4}{9} = \frac{7}{11} \cdot \frac{4}{9} = \frac{28}{99}$$

2. Dividieren

$$\frac{10}{50} : \frac{5}{10} = \frac{10}{50} \cdot \frac{10}{5} = \frac{2}{5} \cdot \frac{1}{1} = \frac{2}{5}$$

$$\frac{4}{16} : \frac{7}{21} = \frac{4}{16} \cdot \frac{21}{7} = \frac{1}{4} \cdot \frac{3}{1} = \frac{3}{4}$$

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

$$\frac{8}{25} : \frac{8}{35} = \frac{8}{25} \cdot \frac{35}{8} = \frac{1}{5} \cdot \frac{7}{1} = \frac{7}{5}$$

$$\frac{18}{49} : \frac{6}{21} = \frac{18}{49} \cdot \frac{21}{6} = \frac{3}{7} \cdot \frac{3}{1} = \frac{9}{7}$$

$$\frac{14}{28} : \frac{14}{16} = \frac{14}{28} \cdot \frac{16}{14} = \frac{1}{7} \cdot \frac{4}{1} = \frac{4}{7}$$

$$\frac{5}{19} : \frac{5}{18} = \frac{5}{19} \cdot \frac{18}{5} = \frac{1}{19} \cdot \frac{18}{1} = \frac{18}{19}$$

$$\frac{20}{70} : \frac{30}{70} = \frac{20}{70} \cdot \frac{70}{30} = \frac{2}{1} \cdot \frac{1}{3} = \frac{2}{3}$$