

Mathematikaufgaben

> Algebra

> Bruchrechnung

Aufgabe: Kürze den Bruch

a) $\frac{4}{8} = ?$

b) $\frac{9}{12} = ?$

c) $\frac{6}{16} = ?$

d) $\frac{12}{16} = ?$

e) $\frac{6}{9} = ?$

f) $\frac{7}{14} = ?$

g) $\frac{8}{18} = ?$

h) $\frac{9}{15} = ?$

i) $\frac{4}{20} = ?$

j) $\frac{15}{25} = ?$

k) $\frac{18}{30} = ?$

l) $\frac{9}{33} = ?$

m) $\frac{8}{28} = ?$

n) $\frac{18}{42} = ?$

o) $\frac{9}{27} = ?$

p) $\frac{14}{44} = ?$

q) $\frac{14}{49} = ?$

r) $\frac{45}{63} = ?$

s) $\frac{77}{99} = ?$

t) $\frac{66}{80} = ?$

Lösungen: Brüche werden gekürzt, indem Zähler und Nenner durch dieselbe (natürliche) Zahl geteilt werden.
Es ergibt sich daraus:

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

$$\text{b) } \frac{9}{12} = \frac{9:3}{12:3} = \frac{3}{4}$$

$$\text{c) } \frac{6}{16} = \frac{6:2}{16:2} = \frac{3}{8}$$

$$\text{d) } \frac{12}{16} = \frac{12:4}{16:4} = \frac{3}{4}$$

$$\text{e) } \frac{6}{9} = \frac{6:3}{9:3} = \frac{2}{3}$$

$$\text{f) } \frac{7}{14} = \frac{7:7}{14:7} = \frac{1}{2}$$

$$\text{g) } \frac{8}{18} = \frac{8:2}{18:2} = \frac{4}{9}$$

$$\text{h) } \frac{9}{15} = \frac{9:3}{15:3} = \frac{3}{5}$$

$$\text{i) } \frac{4}{20} = \frac{4:4}{20:4} = \frac{1}{5}$$

$$\text{j) } \frac{15}{25} = \frac{15:5}{25:5} = \frac{3}{5}$$

$$\text{k) } \frac{18}{30} = \frac{18:6}{30:6} = \frac{3}{5}$$

$$\text{l) } \frac{9}{33} = \frac{9:3}{33:3} = \frac{3}{11}$$

$$\text{m) } \frac{8}{28} = \frac{8:4}{28:4} = \frac{2}{7}$$

$$\text{n) } \frac{18}{42} = \frac{18:6}{42:6} = \frac{3}{7}$$

$$\text{o) } \frac{9}{27} = \frac{9:9}{27:9} = \frac{1}{3}$$

$$\text{p) } \frac{14}{44} = \frac{14:2}{44:2} = \frac{7}{22}$$

$$\text{q) } \frac{14}{49} = \frac{14:7}{49:7} = \frac{2}{7}$$

$$\text{r) } \frac{45}{63} = \frac{45:9}{63:9} = \frac{5}{7}$$

$$\text{s) } \frac{77}{99} = \frac{77:11}{99:11} = \frac{7}{9}$$

$$\text{t) } \frac{66}{80} = \frac{66:2}{80:2} = \frac{33}{40}$$