

Brüche: Strichrechnung**Tipps:**

- ⇒ Brüche am Anfang eventuell kürzen (Zahlen kleiner machen)
- ⇒ Am Ende Bruch immer so weit wie es geht kürzen
- ⇒ 0 geteilt durch irgendwas ist immer Null.
- ⇒ Irgendwas geteilt durch Null geht nicht.
- ⇒ 4 kann auch als 4/1 geschrieben werden.

Addition:

a) $\frac{4}{9} + \frac{2}{3} = \text{---} + \text{---} =$

$\frac{7}{15} + \frac{7}{15} = \text{---} + \text{---} =$

b) $\frac{4}{6} + \frac{7}{9} = \text{---} + \text{---} =$

$\frac{7}{24} + \frac{2}{12} = \text{---} + \text{---} =$

c) $\frac{1}{9} + 7 = \text{---} + \text{---} =$

$\frac{3}{6} + \frac{2}{3} = \text{---} + \text{---} =$

d) $\frac{4}{20} + \frac{10}{60} = \text{---} + \text{---} =$

$\frac{3}{8} + \frac{4}{8} = \text{---} + \text{---} =$

e) $\frac{14}{20} + \frac{12}{30} = \text{---} + \text{---} =$

$\frac{9}{14} + \frac{4}{7} = \text{---} + \text{---} =$

Subtraktion:

f) $\frac{2}{3} - \frac{4}{9} = \text{---} - \text{---} =$

$\frac{7}{15} - \frac{2}{15} = \text{---} - \text{---} =$

g) $\frac{7}{9} - \frac{2}{6} = \text{---} - \text{---} =$

$\frac{7}{24} - \frac{2}{12} = \text{---} - \text{---} =$

h) $7 - \frac{1}{9} = \text{---} - \text{---} =$

$\frac{3}{6} - \frac{2}{3} = \text{---} - \text{---} =$

i) $\frac{4}{20} - \frac{10}{60} = \text{---} - \text{---} =$

$\frac{3}{8} - \frac{4}{8} = \text{---} - \text{---} =$

j) $\frac{14}{20} - \frac{12}{30} = \text{---} - \text{---} =$

$\frac{9}{14} - \frac{4}{7} = \text{---} - \text{---} =$

Lösungen:**Addition**

$$\text{a) } \frac{4}{9} + \frac{2}{3} = \frac{4}{9} + \frac{6}{9} = \frac{12}{9} = \frac{4}{3}$$

$$\frac{7}{15} + \frac{7}{15} = \frac{14}{15}$$

$$\text{b) } \frac{4}{6} + \frac{7}{9} = \frac{2}{3} + \frac{7}{9} = \frac{6}{9} + \frac{7}{9} = \frac{15}{9}$$

$$\frac{7}{24} + \frac{2}{12} = \frac{7}{24} + \frac{4}{24} = \frac{11}{24}$$

$$\text{c) } \frac{1}{9} + 7 = \frac{1}{9} + \frac{7}{1} = \frac{1}{9} + \frac{63}{9} = \frac{64}{9} = 7\frac{1}{9}$$

$$\frac{3}{6} + \frac{2}{3} = \frac{1}{3} + \frac{2}{3} = \frac{3}{3} = 1$$

$$\text{d) } \frac{4}{20} + \frac{10}{60} = \frac{12}{60} + \frac{10}{60} = \frac{22}{60}$$

$$\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$$

$$\text{e) } \frac{14}{20} + \frac{12}{30} = \frac{42}{60} + \frac{24}{60} = \frac{66}{60}$$

$$\frac{9}{14} + \frac{4}{7} = \frac{9}{14} + \frac{8}{14} = \frac{17}{14}$$

Subtraktion:

$$\text{e) } \frac{2}{3} - \frac{4}{9} = \frac{6}{9} - \frac{4}{9} = \frac{2}{9}$$

$$\frac{7}{15} - \frac{2}{15} = \frac{5}{15} = \frac{1}{3}$$

$$\text{f) } \frac{7}{9} - \frac{2}{6} = \frac{7}{9} - \frac{1}{3} = \frac{7}{9} - \frac{3}{9} = \frac{4}{9}$$

$$\frac{7}{24} - \frac{2}{12} = \frac{7}{24} - \frac{4}{24} = \frac{3}{24} = \frac{1}{8}$$

$$\text{g) } 7 - \frac{1}{9} = \frac{7}{1} - \frac{1}{9} = \frac{63}{9} - \frac{1}{9} = \frac{62}{9}$$

$$\frac{3}{6} - \frac{2}{3} = \frac{1}{3} - \frac{2}{3} = -\frac{1}{3}$$

$$\text{h) } \frac{4}{20} - \frac{10}{60} = \frac{12}{60} - \frac{10}{60} = \frac{2}{60} = \frac{1}{30}$$

$$\frac{3}{8} - \frac{4}{8} = -\frac{1}{8}$$

$$\text{e) } \frac{14}{20} - \frac{12}{30} = \frac{42}{60} - \frac{24}{60} = \frac{18}{60} = \frac{3}{10}$$

$$\frac{9}{14} - \frac{4}{7} = \frac{9}{14} - \frac{8}{14} = \frac{1}{14}$$