

Bruchrechnen Einstieg

1. Ordnen Sie die Brüche nach Arten.

echte Brüche:

unechte Brüche:

gemischte Zahlen:

$$\begin{array}{cccccccccccccc} \frac{4}{9} & \frac{2}{4} & 2\frac{10}{25} & \frac{25}{10} & 3\frac{17}{25} & \frac{34}{64} & \frac{4}{8} & 3\frac{1}{2} & \frac{6}{100} & \frac{80}{100} & 4\frac{22}{24} & \frac{25}{5} & \frac{10}{12} \\ \frac{6}{2} & 4\frac{2}{4} & \frac{10}{25} & \frac{8}{16} & 8\frac{2}{12} & \frac{20}{4} & \frac{1}{4} & \frac{12}{4} & \frac{24}{28} & \frac{6}{7} & 5\frac{1}{2} & \frac{55}{25} & \frac{5}{12} \end{array}$$

2. Wandeln Sie gemischte Zahlen in unechte Brüche.

$$2\frac{10}{15} = \quad 6\frac{2}{4} = \quad 1\frac{6}{12} = \quad 3\frac{15}{20} = \quad 10\frac{4}{8} = \quad 4\frac{8}{24} =$$

3. Wandeln Sie unechte Brüche in gemischte Zahlen.

$$\frac{10}{4} = \quad \frac{34}{12} = \quad \frac{3}{2} = \quad \frac{45}{12} = \quad \frac{33}{5} = \quad \frac{16}{3} =$$

4. Erweitern von Brüchen. Ergänzen Sie den Nenner bzw. Zähler

$$\frac{3}{4} = \frac{\quad}{20} \quad \frac{1}{3} = \frac{\quad}{9} \quad \frac{4}{6} = \frac{24}{\quad} \quad \frac{4}{12} = \frac{16}{\quad} \quad \frac{2}{7} = \frac{\quad}{35} \quad \frac{9}{14} = \frac{\quad}{70}$$

5. Kürzen von Brüchen. Ergänzen Sie den Nenner bzw. Zähler

$$\frac{24}{36} = \frac{\quad}{3} \quad \frac{35}{40} = \frac{7}{\quad} \quad \frac{12}{15} = \frac{\quad}{5} \quad \frac{9}{12} = \frac{3}{\quad} \quad \frac{27}{30} = \frac{\quad}{10} \quad \frac{15}{75} = \frac{1}{\quad}$$

6. Kürzen Sie die Brüche so weit wie möglich.

$$\frac{4}{12} = \quad \frac{25}{80} = \quad \frac{36}{48} = \quad \frac{17}{102} = \quad \frac{112}{128} = \quad \frac{55}{86} =$$

7. Addieren und subtrahieren von gleichnamigen Brüchen.

$$\frac{3}{12} + \frac{4}{12} = \quad \frac{3}{6} - \frac{2}{6} = \quad \frac{1}{4} + \frac{2}{4} = \quad \frac{2}{8} + \frac{7}{8} = \quad \frac{3}{9} + \frac{4}{9} =$$

$$\frac{3}{9} - \frac{2}{9} = \quad \frac{12}{16} + \frac{3}{16} = \quad \frac{6}{8} - \frac{1}{8} = \quad \frac{7}{24} - \frac{3}{24} = \quad \frac{2}{4} - \frac{3}{4} =$$

Bruchrechnen Addieren

Addieren von ungleichnamigen Brüchen 1

$$\frac{3}{12} + \frac{4}{6} =$$

$$\frac{2}{4} + \frac{7}{8} =$$

$$\frac{1}{4} + \frac{2}{9} =$$

$$\frac{3}{5} + \frac{4}{9} =$$

$$\frac{3}{4} + \frac{2}{7} =$$

$$\frac{2}{6} + \frac{1}{8} =$$

$$\frac{12}{16} + \frac{3}{5} =$$

$$\frac{7}{8} + \frac{3}{24} =$$

$$\frac{1}{11} + \frac{3}{6} =$$

$$\frac{2}{3} + \frac{5}{9} =$$

$$\frac{1}{8} + \frac{2}{7} =$$

$$\frac{3}{6} + \frac{5}{14} =$$

$$\frac{3}{40} + \frac{2}{22} =$$

$$\frac{8}{9} + \frac{1}{8} =$$

$$\frac{11}{16} + \frac{13}{15} =$$

$$\frac{17}{80} + \frac{8}{60} =$$

$$\frac{15}{22} + \frac{1}{6} =$$

$$\frac{2}{31} + \frac{3}{4} =$$

$$\frac{1}{24} + \frac{2}{25} =$$

$$\frac{3}{16} + \frac{5}{14} =$$

$$\frac{25}{50} + \frac{18}{20} =$$

$$\frac{7}{8} + \frac{15}{30} =$$

$$\frac{14}{42} + \frac{24}{36} =$$

$$\frac{37}{65} + \frac{28}{72} =$$

$$\frac{10}{100} + \frac{25}{200} =$$

$$\frac{18}{16} + \frac{44}{17} =$$

Bruchrechnen Addieren

Addieren von ungleichnamigen Brüchen 2

$$\frac{3}{12} + \frac{4}{6} + \frac{2}{3} =$$

$$\frac{2}{4} + \frac{7}{8} + \frac{3}{6} =$$

$$\frac{1}{4} + \frac{2}{9} + \frac{3}{6} =$$

$$\frac{3}{6} + \frac{3}{7} + \frac{1}{3} =$$

$$\frac{1}{2} + \frac{1}{3} + \frac{1}{4} =$$

$$\frac{3}{4} + \frac{7}{6} + \frac{1}{6} =$$

$$\frac{1}{2} + \frac{2}{4} + \frac{3}{4} =$$

$$\frac{1}{3} + \frac{7}{8} + \frac{1}{48} =$$

$$\frac{9}{10} + \frac{8}{20} + \frac{11}{30} =$$

$$\frac{3}{5} + \frac{4}{6} + \frac{10}{3} =$$

$$\frac{1}{12} + \frac{2}{14} + \frac{3}{6} =$$

$$\frac{5}{6} + \frac{7}{8} + \frac{2}{12} =$$

$$\frac{8}{12} + \frac{8}{4} + \frac{8}{2} =$$

$$\frac{1}{4} + \frac{5}{8} + \frac{10}{12} =$$

$$\frac{9}{11} + \frac{8}{24} + \frac{1}{4} =$$

$$\frac{3}{4} + \frac{4}{6} + \frac{10}{25} =$$

$$\frac{4}{12} + \frac{4}{5} + \frac{2}{6} =$$

$$\frac{1}{2} + \frac{2}{4} + \frac{3}{12} =$$

$$\frac{1}{2} + \frac{12}{15} + \frac{14}{20} =$$

$$\frac{1}{4} + \frac{4}{18} + \frac{3}{12} =$$

$$\frac{4}{5} + \frac{5}{9} + \frac{1}{10} =$$

$$\frac{2}{3} + \frac{1}{6} + \frac{3}{7} =$$

$$\frac{3}{10} + \frac{2}{5} + \frac{1}{6} =$$

$$\frac{1}{5} + \frac{1}{4} + \frac{1}{12} =$$

$$\frac{2}{10} + \frac{3}{15} + \frac{5}{20} =$$

$$\frac{1}{10} + \frac{5}{100} + \frac{25}{1000} =$$

Bruchrechnen Addieren

Addieren von ungleichnamigen Brüchen 3

$$1\frac{3}{6} + 2\frac{4}{6} =$$

$$1\frac{1}{4} + 3\frac{2}{6} =$$

$$1\frac{2}{4} + 2\frac{3}{8} =$$

$$1\frac{1}{3} + 1\frac{1}{7} =$$

$$4\frac{7}{9} + 2\frac{3}{5} =$$

$$2\frac{1}{4} + 2\frac{2}{7} =$$

$$1\frac{6}{7} + 5\frac{1}{8} =$$

$$4\frac{2}{3} + 3\frac{2}{9} =$$

$$2\frac{9}{10} + 1\frac{8}{20} + 2\frac{11}{30} =$$

$$1\frac{3}{5} + 2\frac{4}{6} + 1\frac{2}{3} =$$

$$2\frac{3}{11} + 1\frac{5}{22} + 2\frac{3}{30} =$$

$$2\frac{1}{4} + 2\frac{2}{6} + 1\frac{3}{7} =$$

$$3\frac{1}{2} + 2\frac{2}{3} + 1\frac{3}{4} =$$

$$1\frac{4}{10} + 1\frac{5}{15} + 1\frac{2}{20} =$$

$$3\frac{1}{4} + 2\frac{2}{6} + 1\frac{3}{20} =$$

$$2\frac{1}{3} + 2\frac{3}{7} + 1\frac{5}{9} =$$

$$1\frac{7}{9} + 2\frac{4}{16} + 1\frac{5}{19} =$$

$$1\frac{1}{9} + 2\frac{2}{12} + 1\frac{4}{6} =$$

Bruchrechnen Subtrahieren

Subtrahieren von ungleichnamigen Brüchen 1

$$\frac{8}{12} - \frac{4}{6} =$$

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

$$\frac{2}{4} - \frac{2}{9} =$$

$$\frac{3}{5} - \frac{2}{9} =$$

$$\frac{3}{4} - \frac{2}{7} =$$

$$\frac{2}{6} - \frac{1}{8} =$$

$$\frac{12}{16} - \frac{2}{5} =$$

$$\frac{7}{8} - \frac{3}{24} =$$

$$\frac{3}{6} - \frac{1}{11} =$$

$$\frac{2}{3} - \frac{5}{9} =$$

$$\frac{2}{7} - \frac{2}{8} =$$

$$\frac{3}{6} - \frac{5}{14} =$$

$$\frac{12}{40} - \frac{2}{22} =$$

$$\frac{8}{9} - \frac{1}{8} =$$

$$\frac{13}{15} - \frac{13}{16} =$$

$$\frac{17}{80} - \frac{8}{60} =$$

$$\frac{15}{22} - \frac{1}{6} =$$

$$\frac{3}{4} - \frac{2}{31} =$$

$$\frac{1}{4} - \frac{1}{25} =$$

$$\frac{5}{16} - \frac{3}{14} =$$

$$\frac{25}{50} - \frac{8}{20} =$$

$$\frac{7}{8} - \frac{15}{30} =$$

$$\frac{24}{42} - \frac{14}{36} =$$

$$\frac{37}{65} - \frac{28}{72} =$$

$$\frac{10}{100} - \frac{15}{200} =$$

$$\frac{14}{16} - \frac{4}{17} =$$

Bruchrechnen Einstieg

Subtrahieren von ungleichnamigen Brüchen 2

$$\frac{8}{14} - \frac{3}{10} =$$

$$\frac{3}{4} - \frac{3}{9} =$$

$$\frac{2}{5} - \frac{1}{9} =$$

$$\frac{3}{4} - \frac{1}{7} =$$

$$\frac{3}{4} - \frac{1}{17} =$$

$$\frac{4}{7} - \frac{2}{8} =$$

$$\frac{10}{17} - \frac{2}{9} =$$

$$\frac{5}{6} - \frac{4}{24} =$$

$$\frac{3}{4} - \frac{2}{13} =$$

$$\frac{2}{4} - \frac{4}{9} =$$

$$\frac{4}{7} - \frac{3}{9} =$$

$$\frac{4}{6} - \frac{5}{21} =$$

$$\frac{11}{30} - \frac{5}{21} =$$

$$\frac{7}{9} - \frac{2}{18} =$$

$$\frac{11}{14} - \frac{11}{17} =$$

$$\frac{19}{40} - \frac{7}{30} =$$

$$\frac{12}{23} - \frac{2}{9} =$$

$$\frac{3}{4} - \frac{10}{65} =$$

$$\frac{2}{4} - \frac{3}{26} =$$

$$\frac{4}{16} - \frac{4}{11} =$$

$$\frac{20}{40} - \frac{8}{25} =$$

$$\frac{6}{8} - \frac{14}{32} =$$

$$\frac{20}{42} - \frac{12}{36} =$$

$$\frac{37}{65} - \frac{28}{72} =$$

$$\frac{38}{100} - \frac{17}{200} =$$

$$\frac{12}{26} - \frac{3}{37} =$$

Bruchrechnen Einstieg

Multiplizieren und dividieren von Brüchen

$$\frac{8}{14} : \frac{3}{10} =$$

$$\frac{3}{4} \times \frac{3}{9} =$$

$$\frac{2}{5} : \frac{3}{10} =$$

$$\frac{1}{5} \times \frac{3}{7} =$$

$$\frac{10}{14} : \frac{4}{5} =$$

$$\frac{4}{7} \times \frac{3}{5} =$$

$$\frac{14}{17} : \frac{6}{12} =$$

$$\frac{4}{5} \times \frac{6}{8} = *$$

$$\frac{4}{12} : \frac{8}{18} =$$

$$\frac{2}{7} \times \frac{4}{6} =$$

$$\frac{12}{23} : \frac{15}{26} =$$

$$\frac{5}{6} \times \frac{5}{9} =$$

$$\frac{13}{34} : \frac{15}{27} =$$

$$\frac{2}{6} \times \frac{12}{26} =$$

$$\frac{7}{35} : \frac{15}{28} = *$$

$$\frac{3}{27} \times \frac{9}{24} =$$

$$\frac{12}{16} : \frac{4}{28} =$$

$$\frac{6}{12} \times \frac{9}{24} =$$

$$\frac{2}{4} : \frac{3}{26} =$$

$$\frac{4}{16} \times \frac{4}{11} =$$

$$\frac{20}{40} : \frac{8}{25} =$$

$$\frac{6}{8} \times \frac{14}{32} =$$

$$\frac{20}{42} : \frac{12}{36} =$$

$$\frac{37}{65} \times \frac{28}{72} =$$

$$\frac{38}{100} : \frac{17}{200} =$$

$$\frac{12}{26} \times \frac{3}{37} =$$