

Breuken optellen en aftrekken

Optellen en aftrekken Gelijknamige breuken mag je gewoon optellen of aftrekken door de tellers op te tellen of af te trekken:

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

Niet vergeten achteraf altijd te vereenvoudigen!

1. a. $\frac{4}{5} + \frac{3}{5} =$
b. $\frac{11}{12} + \frac{11}{12} =$
c. $\frac{7}{13} + \frac{6}{13} =$
d. $1\frac{5}{6} + 2\frac{5}{6} =$
e. $3\frac{4}{9} + 1\frac{5}{9} =$
f. $\frac{8}{11} + \frac{5}{11} =$
g. $\frac{9}{22} + \frac{5}{22} =$
h. $4\frac{1}{3} + 3\frac{2}{3} =$
i. $3\frac{12}{13} + 4\frac{11}{13} =$
2. a. $8\frac{1}{6} + \frac{1}{6} =$
b. $2 + \frac{1}{11} =$
c. $\frac{3}{7} + 1\frac{6}{7} =$
d. $2\frac{1}{2} + 3\frac{1}{2} =$
e. $4\frac{7}{20} + 3\frac{3}{20} =$
f. $\frac{8}{15} + 4\frac{2}{15} =$
g. $1\frac{1}{6} + 1\frac{5}{6} =$
h. $\frac{18}{19} + \frac{2}{19} =$
i. $6\frac{9}{14} + 4\frac{3}{14} =$
3. a. $4 - \frac{5}{6} =$
b. $2\frac{5}{6} - 1\frac{1}{6} =$
c. $8\frac{1}{3} - \frac{2}{3} =$
d. $8\frac{1}{3} - 2\frac{2}{3} =$
e. $4\frac{5}{7} - 3 =$
f. $2\frac{2}{11} - \frac{5}{11} =$
g. $2\frac{2}{9} - 1\frac{5}{9} =$
h. $1\frac{7}{12} - \frac{11}{12} =$
i. $8\frac{1}{4} - 2\frac{3}{4} =$
4. a. $\frac{4}{15} - \frac{1}{15} =$
b. $2\frac{1}{15} - 1\frac{4}{15} =$
c. $6 - \frac{2}{3} =$
d. $4\frac{1}{7} - 2 =$
e. $5\frac{3}{11} - 3\frac{6}{11} =$
f. $10\frac{5}{6} - 10\frac{5}{6} =$
g. $6\frac{3}{13} - 1\frac{12}{13} =$
h. $5\frac{8}{21} - 3\frac{11}{21} =$
5. a. $4\frac{1}{6} - 2\frac{1}{6} + 1\frac{5}{6} =$
b. $2\frac{3}{7} + 1\frac{1}{7} - 2\frac{5}{7} =$
c. $4\frac{3}{5} - 1\frac{1}{5} + 2\frac{2}{5} =$
d. $4\frac{3}{5} + 2\frac{2}{5} - \frac{4}{5} =$
e. $3\frac{6}{7} + 1\frac{2}{7} - 2\frac{6}{7} =$
f. $8\frac{1}{6} - 2\frac{5}{6} - 1\frac{5}{6} =$
6. a. $8\frac{1}{6} + 2\frac{5}{6} + 2\frac{5}{6} =$
b. $4\frac{7}{12} - 3\frac{1}{12} + 5\frac{5}{12} =$
c. $4 - 2\frac{3}{7} - \frac{5}{7} =$
d. $8\frac{1}{4} - 3\frac{3}{4} - 1\frac{3}{4} =$
e. $4\frac{1}{12} + \frac{7}{12} - 2\frac{11}{12} =$
f. $6\frac{5}{24} - 2\frac{7}{24} + 3\frac{11}{24} =$

Optellen en aftrekken Niet-gelijknamige breuken voor het optellen of aftrekken op gelijke noemer brengen:

$$\frac{2}{3} + \frac{1}{4} = \frac{8}{12} + \frac{3}{12} = \frac{8+3}{12} = \frac{11}{12}$$
$$\frac{2}{3} - \frac{1}{4} = \frac{8}{12} - \frac{3}{12} = \frac{8-3}{12} = \frac{5}{12}$$

Ook hier niet vergeten achteraf te vereenvoudigen.

Breuken optellen en aftrekken

7. a. $\frac{1}{9} + 1\frac{1}{6} =$
b. $\frac{5}{18} + \frac{7}{30} =$
c. $\frac{4}{7} + \frac{3}{28} =$
d. $\frac{7}{18} + \frac{7}{20} =$
e. $\frac{1}{12} + \frac{3}{20} =$
f. $\frac{1}{16} + \frac{3}{8} =$
g. $\frac{1}{16} + \frac{5}{24} =$
h. $1\frac{1}{16} + 1\frac{1}{10} =$
i. $5\frac{8}{11} + 1\frac{4}{55} =$
8. a. $\frac{1}{3} - \frac{1}{6} =$
b. $1\frac{1}{6} - \frac{1}{3} =$
c. $\frac{1}{2} - \frac{1}{4} =$
d. $1\frac{1}{4} - \frac{1}{2} =$
e. $1\frac{1}{3} - \frac{1}{2} =$
f. $1\frac{1}{3} - \frac{1}{4} =$
g. $\frac{1}{3} - \frac{1}{4} =$
h. $\frac{1}{2} - \frac{1}{3} =$
i. $1\frac{1}{6} - \frac{1}{5} =$
9. a. $1\frac{7}{10} - \frac{8}{9} =$
b. $\frac{8}{9} - \frac{2}{3} =$
c. $1\frac{5}{6} - \frac{2}{3} =$
d. $2\frac{5}{6} - \frac{9}{10} =$
e. $1\frac{3}{4} - \frac{7}{8} =$
f. $1\frac{7}{8} - \frac{3}{4} =$
g. $\frac{4}{7} - \frac{11}{28} =$
h. $2\frac{4}{13} - \frac{7}{26} =$
i. $2\frac{7}{16} - \frac{13}{24} =$

Oplossingen

1. a. $1\frac{2}{5}$
b. $1\frac{5}{6}$
c. 1
d. $4\frac{2}{3}$
e. 5
f. $1\frac{1}{11}$
g. $\frac{7}{11}$
h. 8
i. $8\frac{10}{13}$
2. a. $8\frac{1}{3}$
b. $2\frac{1}{11}$
c. $2\frac{2}{7}$
d. 6
e. $7\frac{1}{2}$
f. $4\frac{2}{3}$
g. 3
h. $1\frac{1}{19}$
i. $10\frac{6}{7}$
3. a. $3\frac{1}{6}$
- b. $1\frac{2}{3}$
c. $7\frac{2}{3}$
d. $5\frac{2}{3}$
e. $1\frac{5}{7}$
f. $1\frac{8}{11}$
g. $\frac{2}{3}$
h. $\frac{2}{3}$
i. $5\frac{1}{2}$
4. a. $\frac{3}{15}$
b. $\frac{4}{5}$
c. $5\frac{1}{3}$
d. $2\frac{1}{7}$
e. $1\frac{8}{11}$
f. 0
g. $4\frac{4}{13}$
h. $1\frac{6}{7}$
i. $\frac{5}{6}$
5. a. $3\frac{5}{6}$
b. $\frac{6}{7}$
- c. $5\frac{4}{5}$
d. $6\frac{1}{5}$
e. $2\frac{2}{7}$
f. $3\frac{1}{2}$
6. a. $13\frac{5}{6}$
b. $6\frac{11}{12}$
c. $\frac{6}{7}$
d. $2\frac{3}{4}$
e. $1\frac{3}{4}$
f. $7\frac{3}{8}$
7. a. $1\frac{5}{18}$
b. $\frac{23}{45}$
c. $\frac{19}{28}$
d. $\frac{133}{180}$
e. $\frac{7}{30}$
f. $\frac{7}{16}$
g. $\frac{13}{48}$
h. $2\frac{13}{80}$
i. $6\frac{4}{5}$
8. a. $\frac{1}{6}$
b. $\frac{5}{6}$
c. $\frac{1}{4}$
d. $\frac{3}{4}$
e. $\frac{5}{6}$
f. $\frac{1}{12}$
g. $\frac{1}{12}$
h. $\frac{1}{6}$
i. $\frac{29}{30}$
9. a. $\frac{73}{90}$
b. $\frac{2}{9}$
c. $1\frac{1}{6}$
d. $1\frac{14}{15}$
e. $\frac{7}{8}$
f. $1\frac{1}{8}$
g. $\frac{5}{28}$
h. $2\frac{1}{26}$
i. $1\frac{43}{48}$