

STAPELBREUKEN

UITLEG

HOE LOS JE STAPELBREUKEN MET BEWERKINGEN IN TELLER EN NOEMER OP?

Voorbeeld met optelling in de teller en aftrekking in de noemer:

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

Los de breuken in de teller en de noemer op.

Maak ze gelijknamig:

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

Tel op in de teller en trek af in de noemer:

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

Maak nu de deling: teller gedeeld door noemer:

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

Reken de deling uit :

$$\frac{\frac{1}{2} + \frac{1}{3}}{\frac{1}{2} - \frac{1}{4}} = \frac{\frac{3}{6} + \frac{2}{6}}{\frac{2}{4} - \frac{1}{4}} = \frac{\frac{5}{6}}{\frac{1}{4}} = \frac{5}{6} : \frac{1}{4} = \frac{20}{6}$$

Vereenvoudig de uitkomst:

$$\frac{\frac{1}{2} + \frac{1}{3}}{\frac{1}{2} - \frac{1}{4}} = \frac{\frac{3}{6} + \frac{2}{6}}{\frac{2}{4} - \frac{1}{4}} = \frac{\frac{5}{6}}{\frac{1}{4}} = \frac{5}{6} : \frac{1}{4} = \frac{20}{6} = \frac{10}{3} = 3\frac{1}{3}$$

Reken om naar decimale breuk:

$$\frac{\frac{1}{2} + \frac{1}{3}}{\frac{1}{2} - \frac{1}{4}} = \frac{\frac{3}{6} + \frac{2}{6}}{\frac{2}{4} - \frac{1}{4}} = \frac{\frac{5}{6}}{\frac{1}{4}} = \frac{5}{6} : \frac{1}{4} = \frac{20}{6} = \frac{10}{3} = 3\frac{1}{3} = 3,3333.....$$