



Plus og minus brøker

Opgave 1 Find summen af følgende brøker ved at finde fællesnæver.

$$\text{a. } \frac{1}{8} + \frac{2}{8} = \frac{1+2}{8} = \frac{3}{8}$$

$$\text{b. } \frac{1}{2} + \frac{3}{4} = \frac{1 \cdot 2}{2 \cdot 2} + \frac{3}{4} = \frac{2}{4} + \frac{3}{4} = \frac{2+3}{4} = \frac{5}{4}$$

$$\text{c. } \frac{3}{5} + \frac{2}{6} = \frac{3 \cdot 6}{5 \cdot 6} + \frac{2 \cdot 5}{6 \cdot 5} = \frac{18}{30} + \frac{10}{30} = \frac{18+10}{30} = \frac{28}{30}$$

$$\text{d. } \frac{5}{3} + \frac{5}{7} = \frac{5 \cdot 7}{3 \cdot 7} + \frac{5 \cdot 3}{7 \cdot 3} = \frac{35}{21} + \frac{15}{21} = \frac{35+15}{21} = \frac{50}{21}$$

Opgave 2 Find differensen af følgende brøker ved at finde fællesnæver.

$$\text{a. } \frac{1}{2} - \frac{1}{3} = \frac{1 \cdot 3}{2 \cdot 3} - \frac{1 \cdot 2}{3 \cdot 2} = \frac{3}{6} - \frac{2}{6} = \frac{3-2}{6} = \frac{1}{6}$$

$$\text{b. } \frac{4}{5} - \frac{1}{3} = \frac{4 \cdot 3}{5 \cdot 3} - \frac{1 \cdot 5}{3 \cdot 5} = \frac{12}{15} - \frac{5}{15} = \frac{12-5}{15} = \frac{7}{15}$$

$$\text{c. } \frac{5}{6} - \frac{9}{3} = \frac{5}{6} - \frac{9 \cdot 2}{3 \cdot 2} = \frac{5}{6} - \frac{18}{6} = \frac{5-18}{6} = \frac{-13}{6} = -\frac{13}{6}$$

$$\text{d. } \frac{7}{4} - \frac{2}{6} = \frac{7 \cdot 3}{4 \cdot 3} - \frac{2 \cdot 2}{6 \cdot 2} = \frac{21}{12} - \frac{4}{12} = \frac{21-4}{12} = \frac{17}{12}$$