

# Folgen mit rationalen Zahlen (Aufgaben-Beispiel)

$$a_1 = \frac{1}{3} - \frac{1}{5} = \frac{\overset{5}{\dots\dots}}{\underset{\dots\dots}{15}} - \frac{\overset{3}{\dots\dots}}{\underset{\dots\dots}{15}} = \frac{\overset{2}{\dots\dots}}{\underset{\dots\dots}{15}}$$

$$a_2 = \frac{1}{6} - \frac{1}{10} = \frac{\overset{5}{\dots\dots}}{\underset{\dots\dots}{30}} - \frac{\overset{3}{\dots\dots}}{\underset{\dots\dots}{30}} = \frac{\overset{2}{\dots\dots}}{\underset{\dots\dots}{30}}$$

$$a_3 = \frac{1}{9} - \frac{1}{15} = \frac{\overset{5}{\dots\dots}}{\underset{\dots\dots}{45}} - \frac{\overset{3}{\dots\dots}}{\underset{\dots\dots}{45}} = \frac{\overset{2}{\dots\dots}}{\underset{\dots\dots}{45}}$$

$$a_4 = \frac{1}{12} - \frac{1}{20} = \frac{\overset{5}{\dots\dots}}{\underset{\dots\dots}{60}} - \frac{\overset{3}{\dots\dots}}{\underset{\dots\dots}{60}} = \frac{\overset{2}{\dots\dots}}{\underset{\dots\dots}{60}}$$

$$a_{10} = \frac{\overset{1}{\dots\dots}}{\underset{\dots\dots}{30}} - \frac{\overset{1}{\dots\dots}}{\underset{\dots\dots}{50}} = \frac{\overset{5}{\dots\dots}}{\underset{\dots\dots}{150}} - \frac{\overset{3}{\dots\dots}}{\underset{\dots\dots}{150}} = \frac{\overset{2}{\dots\dots}}{\underset{\dots\dots}{150}}$$

$$a_x = \frac{\overset{1}{\dots\dots}}{\underset{\dots\dots}{3 \cdot x}} - \frac{\overset{1}{\dots\dots}}{\underset{\dots\dots}{5 \cdot x}} = \frac{\overset{5}{\dots\dots}}{\underset{\dots\dots}{15 \cdot x}} - \frac{\overset{3}{\dots\dots}}{\underset{\dots\dots}{15 \cdot x}} = \frac{\overset{2}{\dots\dots}}{\underset{\dots\dots}{15 \cdot x}}$$