

1. a) $\frac{1}{2} \stackrel{2}{=} \frac{5}{10} = 0,5$ b) $\frac{3}{4} \stackrel{25}{=} \frac{75}{100} = 0,75$ c) $\frac{3}{5} \stackrel{2}{=} \frac{6}{10} = 0,6$ d) $\frac{5}{8} \stackrel{125}{=} \frac{625}{1000} = 0,625$
 e) $\frac{7}{1000} = 0,007$ f) $\frac{13}{20} \stackrel{5}{=} \frac{65}{100} = 0,65$ g) $\frac{19}{25} \stackrel{4}{=} \frac{76}{100} = 0,76$ h) $\frac{3}{200} \stackrel{5}{=} \frac{15}{1000} = 0,015$

2. a) $2\frac{1}{4} = \frac{9}{4} \stackrel{25}{=} \frac{225}{100} = 2,25$ b) $4\frac{7}{10} = \frac{47}{10} = 4,7$
 c) $8\frac{3}{8} = \frac{67}{8} \stackrel{125}{=} \frac{8,375}{1000} = 8,375$ d) $1\frac{17}{50} = \frac{67}{50} \stackrel{2}{=} \frac{134}{100} = 1,34$
 e) $2\frac{11}{20} = \frac{51}{20} \stackrel{5}{=} \frac{255}{100} = 2,55$ f) $5\frac{91}{250} = \frac{1341}{250} \stackrel{4}{=} \frac{5364}{1000} = 5,364$
 g) $8\frac{9}{40} = \frac{329}{40} \stackrel{25}{=} \frac{8225}{1000} = 8,225$ h) $1\frac{1}{500} = \frac{501}{500} \stackrel{2}{=} \frac{1002}{1000} = 1,002$

3. a) $1,00:4 = 0,25$

$$\begin{array}{r} 8 \\ \underline{20} \\ 20 \\ \underline{0} \end{array}$$

b) $7,000:8 = 0,875$

$$\begin{array}{r} 6,4 \\ \underline{60} \\ 56 \\ \underline{40} \\ 40 \\ \underline{0} \end{array}$$

c) $19,00000:32 = 0,59375$

$$\begin{array}{r} 16,0 \\ \underline{3,00} \\ 2,88 \\ \underline{120} \\ 96 \\ \underline{240} \\ 224 \\ \underline{160} \\ 160 \\ \underline{0} \end{array}$$

d) $9,0000:16 = 0,5625$

$$\begin{array}{r} 8,0 \\ \underline{1,00} \\ 96 \\ \underline{40} \\ 32 \\ \underline{80} \\ 80 \\ \underline{0} \end{array}$$

4. a) $1,0:3 = 0,\bar{3}$

$$\begin{array}{r} 9 \\ \underline{1} \end{array}$$

b) $5,00:6 = 0,8\bar{3}$

$$\begin{array}{r} 4,8 \\ \underline{20} \\ 18 \\ \underline{2} \end{array}$$

c) $9,00:11 = 0,8\bar{1}$

$$\begin{array}{r} 8,8 \\ \underline{20} \\ 11 \\ \underline{9} \end{array}$$

d) $11,00:15 = 0,7\bar{3}$

$$\begin{array}{r} 10,5 \\ \underline{50} \\ 45 \\ \underline{5} \end{array}$$

5. $\frac{1}{9} = 0,\bar{1}$; $\frac{2}{9} = 0,\bar{2}$; $\frac{3}{9} = 0,\bar{3}$; $\frac{4}{9} = 0,\bar{4}$; $\frac{5}{9} = 0,\bar{5}$; $\frac{6}{9} = 0,\bar{6}$; $\frac{7}{9} = 0,\bar{7}$; $\frac{8}{9} = 0,\bar{8}$
 Unter dem Periodenstrich stehen die Zahlen 1 bis 8.

6. $\frac{1}{11} = 0,\overline{09}$; $\frac{2}{11} = 0,\overline{18}$; $\frac{3}{11} = 0,\overline{27}$; $\frac{4}{11} = 0,\overline{36}$; $\frac{5}{11} = 0,\overline{45}$; $\frac{6}{11} = 0,\overline{54}$; $\frac{7}{11} = 0,\overline{63}$; $\frac{8}{11} = 0,\overline{72}$; $\frac{9}{11} = 0,\overline{81}$;
 $\frac{10}{11} = 0,\overline{90}$
 Unter dem Periodenstrich stehen die Zahlen der 9er-Reihe.

7. $\frac{1}{7} = 0,\overline{142857}$; $\frac{2}{7} = 0,\overline{285714}$; $\frac{3}{7} = 0,\overline{428571}$; $\frac{4}{7} = 0,\overline{571428}$; $\frac{5}{7} = 0,\overline{714285}$; $\frac{6}{7} = 0,\overline{857142}$
 Unter dem Periodenstrich steht immer die selben Ziffernfolge, die an unterschiedlicher Stelle beginnt.