

Lösungen AB 1 KA3

1. (a) $\frac{1}{2} = \frac{5}{10} = 0,5$

(b) $\frac{3}{4} = \frac{75}{100} = 0,75$

(c) $\frac{2}{5} = \frac{4}{10} = 0,4$

(d) $\frac{7}{10} = 0,7$

(e) $\frac{13}{20} = \frac{65}{100} = 0,65$

(f) $\frac{19}{25} = \frac{76}{100} = 0,76$

2. (a) $\frac{5}{8} = 0,625$

$$\begin{array}{r|l} 5 & 8 \\ -0 & \hline 50 & 0,625 \\ -48 & \\ \hline 20 & \\ -16 & \\ \hline 40 & \\ -40 & \\ \hline 00 & \end{array}$$

(b) $\frac{5}{6} = 0,8\bar{3}$

$$\begin{array}{r|l} 5 & 6 \\ -0 & \hline 50 & 0,83 \\ -48 & \\ \hline 20 & \\ -18 & \\ \hline 2 & \end{array}$$

(c) $\frac{3}{16} = 0,1875$

$$\begin{array}{r|l} 3 & 16 \\ -0 & \hline 30 & 0,1875 \\ -16 & \\ \hline 140 & \\ -128 & \\ \hline 120 & \\ -112 & \\ \hline 80 & \\ -80 & \\ \hline 00 & \end{array}$$

(d) $\frac{1}{3} = 0,\bar{3}$

$$\begin{array}{r|l} 1 & 3 \\ -0 & \hline 10 & 0,3 \\ -9 & \\ \hline 1 & \end{array}$$

(e) $\frac{7}{40} = 0,175$

$$\begin{array}{r|l} 7 & 40 \\ -0 & \hline 70 & 0,175 \\ -40 & \\ \hline 300 & \\ -280 & \\ \hline 200 & \\ -200 & \\ \hline 00 & \end{array}$$

(f) $\frac{4}{7} = 0,571428$

4	7
- 0	0,5 7 1 4 2 8
4 0	
- 3 5	
5 0	
- 4 9	
1 0	
- 7	
3 0	
- 2 8	
2 0	
- 1 4	
6 0	
- 5 6	
4	

3. (a) $13,499 \approx 13,50$ (c) $0,852 \approx 0,85$ (e) $1,02034 \approx 1,02$
 (b) $9,584 \approx 9,58$ (d) $0,034 \approx 0,03$ (f) $5,996 \approx 6,00$
4. (a) $0,6 = \frac{6}{10} = \frac{3}{5}$ (c) $2,04 = 2\frac{4}{100} = 2\frac{1}{25}$ (e) $0,0091 = \frac{91}{10000}$
 (b) $0,25 = \frac{25}{100} = \frac{1}{4}$ (d) $1,37 = 1\frac{37}{100}$ (f) $0,258 = \frac{258}{1000} = \frac{129}{500}$
5. (a) $0,25 = 25\%$ (c) $0,6 = 60\%$ (e) $0,587 = 58,7\%$
 (b) $\frac{13}{100} = 13\%$ (d) $\frac{4}{25} = \frac{16}{100} = 16\%$ (f) $\frac{3}{10} = \frac{30}{100} = 30\%$
6. $0,77 < 79\% < \frac{4}{5} < 0,801 < 81\% < 0,8\bar{1} < \frac{17}{20}$
7. (a) $49 \text{ cm} = 490 \text{ mm}$ (c) $1,304 \text{ km} = 1304 \text{ m}$ (e) $14 \text{ m} = 140 \text{ dm}$
 (b) $5,6 \text{ m} = 56 \text{ dm}$ (d) $43 \text{ dm} = 430 \text{ cm}$ (f) $0,4 \text{ dm} = 4 \text{ cm}$
8. (a) $4 \text{ m} = 400 \text{ cm}$ (c) $3 \text{ dm} = 300 \text{ mm}$ (e) $45000 \text{ mm} = 45 \text{ m}$
 (b) $340 \text{ m} = 0,34 \text{ km}$ (d) $0,04 \text{ km} = 4000 \text{ cm}$ (f) $90000 \text{ cm} = 0,9 \text{ km}$
9. (a) $4 \text{ dm}^2 = 400 \text{ cm}^2$ (b) $3500 \text{ mm}^2 = 35 \text{ cm}^2$ (c) $32 \text{ dm}^2 = 3200 \text{ cm}^2$
10. Wandle in m^2 um.
- (a) $4 \text{ a} = 400 \text{ m}^2$ (c) $12 \text{ ha} = 120000 \text{ m}^2$ (e) $1 \text{ km}^2 = 1000000 \text{ m}^2$
 (b) $300 \text{ dm}^2 = 3 \text{ m}^2$ (d) $450000 \text{ cm}^2 = 45 \text{ m}^2$ (f) $0,03 \text{ ha} = 300 \text{ m}^2$
11. (a) $32 \text{ km}^2 = 3200 \text{ ha}$ (b) $4500 \text{ a} = 45 \text{ ha}$ (c) $870000 \text{ m}^2 = 87 \text{ ha}$