

1. Ermittle, zwischen welchen natürlichen Zahlen diese Quadratwurzeln liegen.

a)  $3 < \sqrt{13} < 4$

b)  $\underline{\hspace{1cm}} < \sqrt{21} < \underline{\hspace{1cm}}$

c)  $\underline{\hspace{1cm}} < \sqrt{26} < \underline{\hspace{1cm}}$

d)  $\underline{\hspace{1cm}} < \sqrt{88} < \underline{\hspace{1cm}}$

e)  $\underline{\hspace{1cm}} < \sqrt{57} < \underline{\hspace{1cm}}$

f)  $\underline{\hspace{1cm}} < \sqrt{12} < \underline{\hspace{1cm}}$

g)  $\underline{\hspace{1cm}} < \sqrt{37} < \underline{\hspace{1cm}}$

h)  $\underline{\hspace{1cm}} < \sqrt{24} < \underline{\hspace{1cm}}$

i)  $\underline{\hspace{1cm}} < \sqrt{78} < \underline{\hspace{1cm}}$

j)  $\underline{\hspace{1cm}} < \sqrt{41} < \underline{\hspace{1cm}}$

k)  $\underline{\hspace{1cm}} < \sqrt{29} < \underline{\hspace{1cm}}$

l)  $\underline{\hspace{1cm}} < \sqrt{82} < \underline{\hspace{1cm}}$

m)  $\underline{\hspace{1cm}} < \sqrt{59} < \underline{\hspace{1cm}}$

n)  $\underline{\hspace{1cm}} < \sqrt{14} < \underline{\hspace{1cm}}$

2. Überschlage auch hier.

a)  $18 < \sqrt{350} < 19$

b)  $\underline{\hspace{1cm}} < \sqrt{270} < \underline{\hspace{1cm}}$

c)  $\underline{\hspace{1cm}} < \sqrt{420} < \underline{\hspace{1cm}}$

d)  $\underline{\hspace{1cm}} < \sqrt{580} < \underline{\hspace{1cm}}$

e)  $\underline{\hspace{1cm}} < \sqrt{555} < \underline{\hspace{1cm}}$

f)  $\underline{\hspace{1cm}} < \sqrt{330} < \underline{\hspace{1cm}}$

g)  $\underline{\hspace{1cm}} < \sqrt{176} < \underline{\hspace{1cm}}$

h)  $\underline{\hspace{1cm}} < \sqrt{750} < \underline{\hspace{1cm}}$

i)  $\underline{\hspace{1cm}} < \sqrt{150} < \underline{\hspace{1cm}}$

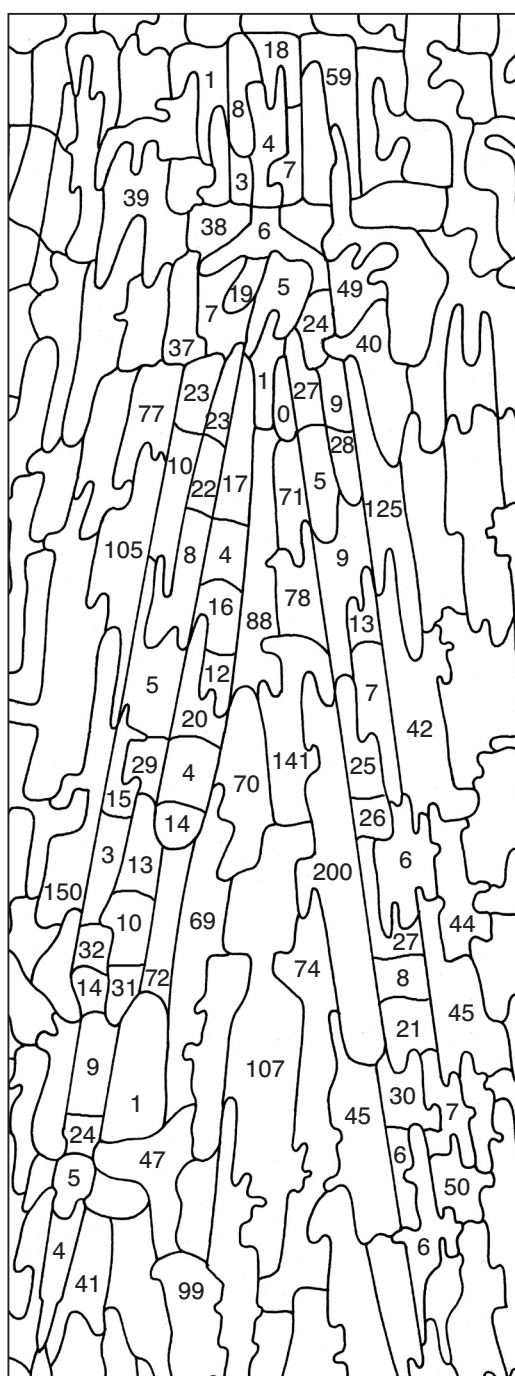
j)  $\underline{\hspace{1cm}} < \sqrt{690} < \underline{\hspace{1cm}}$

k)  $\underline{\hspace{1cm}} < \sqrt{210} < \underline{\hspace{1cm}}$

l)  $\underline{\hspace{1cm}} < \sqrt{999} < \underline{\hspace{1cm}}$

m)  $\underline{\hspace{1cm}} < \sqrt{510} < \underline{\hspace{1cm}}$

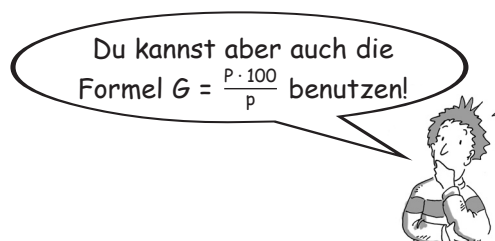
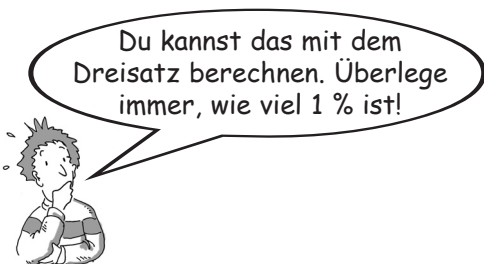
n)  $\underline{\hspace{1cm}} < \sqrt{850} < \underline{\hspace{1cm}}$



Male die Lösungsfelder an.

1. Berechne die Grundwerte. Runde auf Hundertstel.

Schreibe die Nebenrechnung in dein Heft oder benutze den Taschenrechner.



a) 9 %  $\triangleq$  63 G = \_\_\_\_\_

n) 37,4 %  $\triangleq$  76 G = \_\_\_\_\_

b)  $4\frac{1}{2}$  %  $\triangleq$  13,5 G = \_\_\_\_\_

o) 29,8 %  $\triangleq$  93 G = \_\_\_\_\_

c) 24 %  $\triangleq$  6 G = \_\_\_\_\_

p) 0,74 %  $\triangleq$  48 G = \_\_\_\_\_

d) 17,5 %  $\triangleq$  147 G = \_\_\_\_\_

q) 42,8 %  $\triangleq$  246 G = \_\_\_\_\_

e) 80 %  $\triangleq$  250 G = \_\_\_\_\_

r) 91,3 %  $\triangleq$  87 G = \_\_\_\_\_

f) 22 %  $\triangleq$  44 G = \_\_\_\_\_

s) 29,8 %  $\triangleq$  76 G = \_\_\_\_\_

g) 25 %  $\triangleq$  70 G = \_\_\_\_\_

t) 38 %  $\triangleq$  206,34 G = \_\_\_\_\_

h) 75 %  $\triangleq$  600 G = \_\_\_\_\_

u) 72 %  $\triangleq$  699,12 G = \_\_\_\_\_

i)  $12\frac{1}{2}$  %  $\triangleq$  300 G = \_\_\_\_\_

v) 67 %  $\triangleq$  303,51 G = \_\_\_\_\_

j)  $33\frac{1}{3}$  %  $\triangleq$  260 G = \_\_\_\_\_

w) 94 %  $\triangleq$  862,92 G = \_\_\_\_\_

k)  $66\frac{2}{3}$  %  $\triangleq$  440 G = \_\_\_\_\_

x) 29 %  $\triangleq$  233,74 G = \_\_\_\_\_

l) 20 %  $\triangleq$  536 G = \_\_\_\_\_

y) 5,7 %  $\triangleq$  201,21 G = \_\_\_\_\_

m)  $16\frac{2}{3}$  %  $\triangleq$  87 G = \_\_\_\_\_

z) 7,6 %  $\triangleq$  222,68 G = \_\_\_\_\_

Male die zu deinen Ergebnissen gehörenden Felder an.

25	G9
78,21	I2
95,29	D5
177,30	K7
200	E9
203,21	B4
242	I8
255,03	H6
262,81	F10
280	H8
299	A5
300	E3
303	G7
312,08	C9
312,50	E7
344	H9

421,70	K10
453	E5
503	D10
522	H4
540	A8
543	H7
563,23	G1
574,77	C3
652	K1
660	B6
689	D6
700	B8
755	C7
780	H5
799	D2
800	F3

806	G3
832	K8
840	B7
909	F2
918	E8
966,10	H3
971	B5
1250	A10
2400	E6
2578	B9
2680	F9
2930	D3
3120	E1
3530	F5
5760	B3
6486,49	D9

	A	B	C	D	E	F	G	H	I	K
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

Berechne.

a)  $\left(-\frac{4}{5}\right) - \left(+\frac{1}{2}\right) =$  \_\_\_\_\_

n)  $\left(+1\frac{4}{5}\right) - \left(-\frac{42}{45}\right) =$  \_\_\_\_\_

b)  $\left(-\frac{3}{4}\right) + \left(-\frac{2}{4}\right) =$  \_\_\_\_\_

o)  $\left(-\frac{7}{55}\right) + \left(+\frac{88}{165}\right) =$  \_\_\_\_\_

c)  $\left(+\frac{1}{2}\right) + \left(-\frac{2}{2}\right) =$  \_\_\_\_\_

p)  $\left(+\frac{13}{156}\right) - \left(-1\frac{8}{12}\right) =$  \_\_\_\_\_

d)  $\left(+\frac{1}{3}\right) + \left(+\frac{2}{3}\right) =$  \_\_\_\_\_

q)  $\left(+\frac{25}{78}\right) - \left(+\frac{7}{13}\right) =$  \_\_\_\_\_

e)  $\left(+\frac{2}{3}\right) - \left(-\frac{4}{6}\right) =$  \_\_\_\_\_

r)  $\left(-\frac{21}{93}\right) + \left(+\frac{1}{3}\right) =$  \_\_\_\_\_

f)  $\left(+\frac{5}{9}\right) - \left(+\frac{8}{9}\right) =$  \_\_\_\_\_

s)  $\left(-\frac{4}{17}\right) - \left(-\frac{28}{136}\right) =$  \_\_\_\_\_

g)  $\left(+\frac{3}{12}\right) + \left(-\frac{15}{24}\right) =$  \_\_\_\_\_

t)  $\left(-\frac{66}{208}\right) + \left(-3\frac{3}{8}\right) =$  \_\_\_\_\_

h)  $\left(-\frac{7}{15}\right) + \left(-\frac{2}{10}\right) =$  \_\_\_\_\_

u)  $\left(+2\frac{7}{21}\right) + \left(-\frac{19}{189}\right) =$  \_\_\_\_\_

i)  $\left(-\frac{6}{36}\right) - \left(+\frac{4}{6}\right) =$  \_\_\_\_\_

v)  $\left(-1\frac{5}{44}\right) - \left(+2\frac{1}{4}\right) =$  \_\_\_\_\_

j)  $\left(+\frac{1}{7}\right) - \left(-1\frac{32}{49}\right) =$  \_\_\_\_\_

w)  $\left(+\frac{7}{11}\right) + \left(+\frac{78}{165}\right) =$  \_\_\_\_\_

k)  $\left(+\frac{21}{27}\right) + \left(+\frac{2}{3}\right) =$  \_\_\_\_\_

x)  $\left(-\frac{54}{180}\right) - \left(+2\frac{4}{12}\right) =$  \_\_\_\_\_

l)  $\left(+\frac{7}{9}\right) - \left(-\frac{5}{81}\right) =$  \_\_\_\_\_

y)  $\left(-\frac{3}{13}\right) - \left(-\frac{87}{104}\right) =$  \_\_\_\_\_

m)  $\left(-\frac{21}{26}\right) + \left(-\frac{10}{13}\right) =$  \_\_\_\_\_

z)  $\left(+2\frac{14}{77}\right) + \left(-1\frac{9}{11}\right) =$  \_\_\_\_\_

Male die Lösungsfelder an. Wie lautet das Lösungswort?

$-\frac{17}{78}$	$1\frac{6}{55}$	$-4\frac{11}{22}$	$-\frac{1}{34}$	$\frac{4}{11}$
$\frac{68}{81}$	1	$1\frac{1}{2}$	-1	$3\frac{1}{8}$
$-1\frac{1}{4}$	$\frac{63}{104}$	$-\frac{5}{6}$	$\frac{1}{11}$	$-1\frac{2}{5}$
$1\frac{1}{3}$	$-2\frac{19}{30}$	$-1\frac{66}{87}$	$-3\frac{9}{13}$	$1\frac{39}{49}$
$2\frac{11}{15}$	$-1\frac{15}{26}$	$\frac{67}{165}$	$\frac{1}{2}$	$1\frac{4}{9}$
$-\frac{10}{93}$	$1\frac{3}{4}$	$-\frac{1}{3}$	$-\frac{2}{3}$	$2\frac{3}{5}$
$-1\frac{4}{9}$	$\frac{2}{3}$	$\frac{10}{93}$	$-3\frac{4}{11}$	$2\frac{44}{189}$