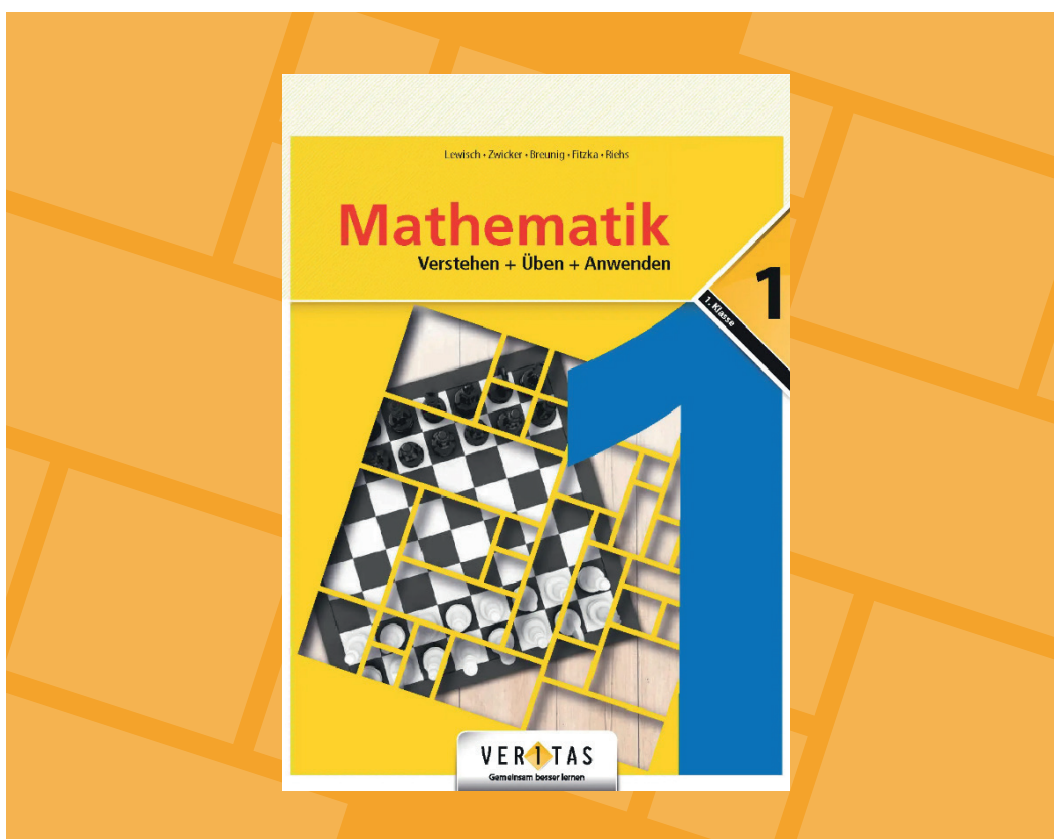


Tastbare Versionen ausgewählter Grafiken aus dem Schulbuch

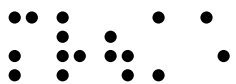
Mathematik

Verstehen + Üben + Anwenden 1

Mathematik Verstehen + Üben + Anwenden 1



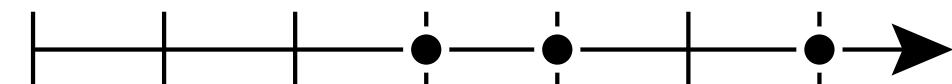
Grafiken: Tomáš Batha



MVÜA1

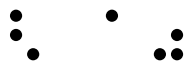


1 a)

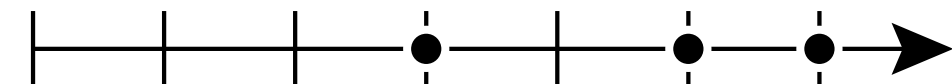


0

1



2 a)

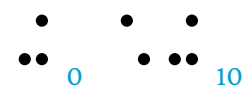
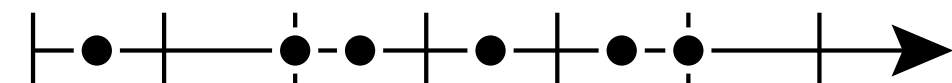


0

5



3 a)

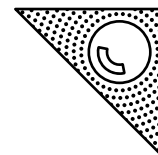


0

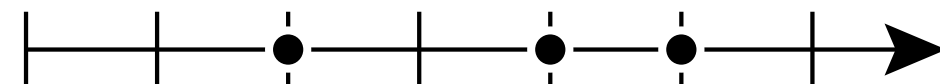
10



S.71, 2, 3



1 b)

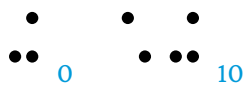
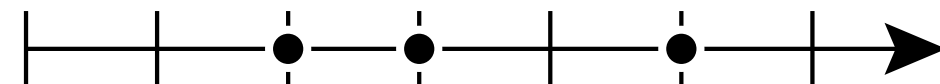


0

1



2 b)

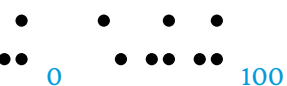


0

10

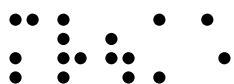


3 b)



0

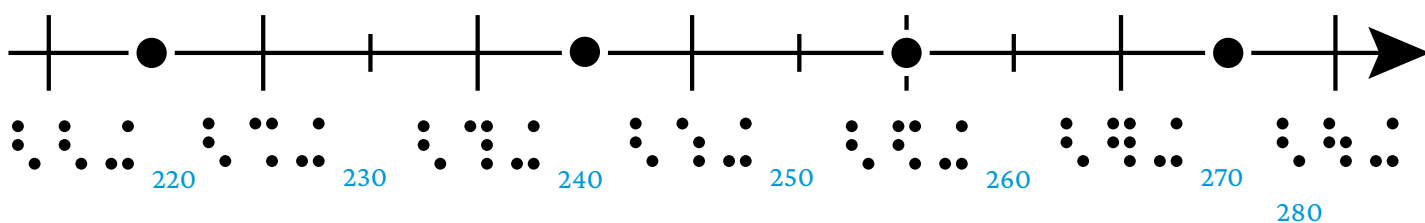
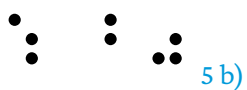
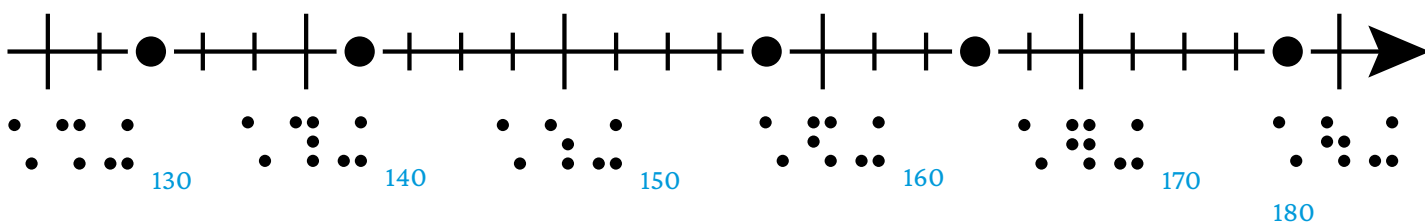
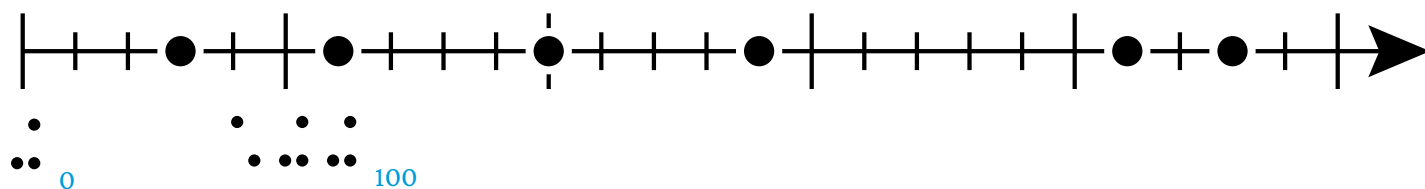
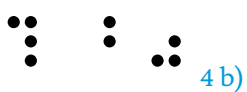
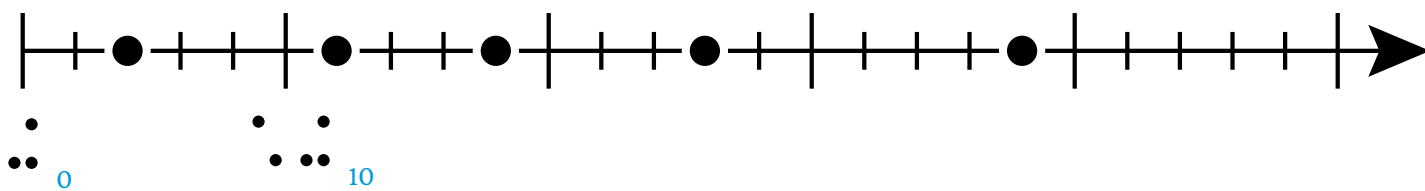
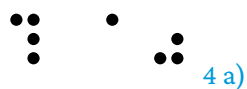
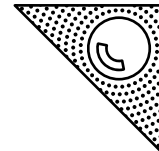
100

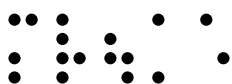


MVÜA1

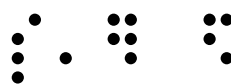


S.7 4, 5

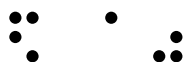
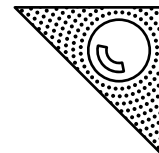




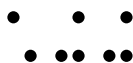
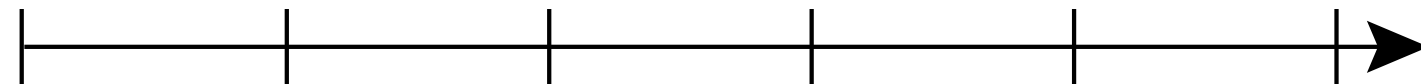
MVÜA1



S.7 6



6 a)



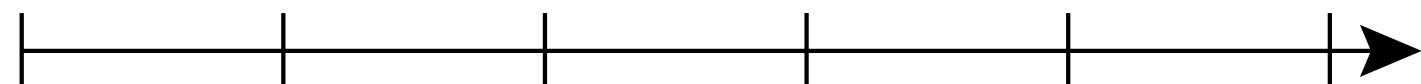
100



150



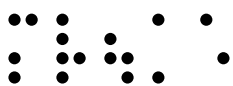
6 b)



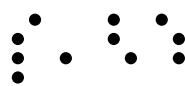
400



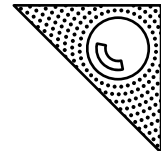
500



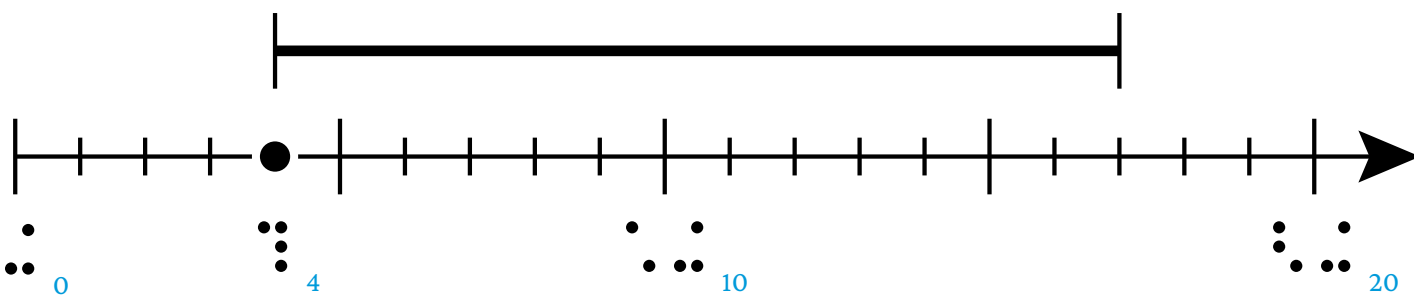
MVÜA1



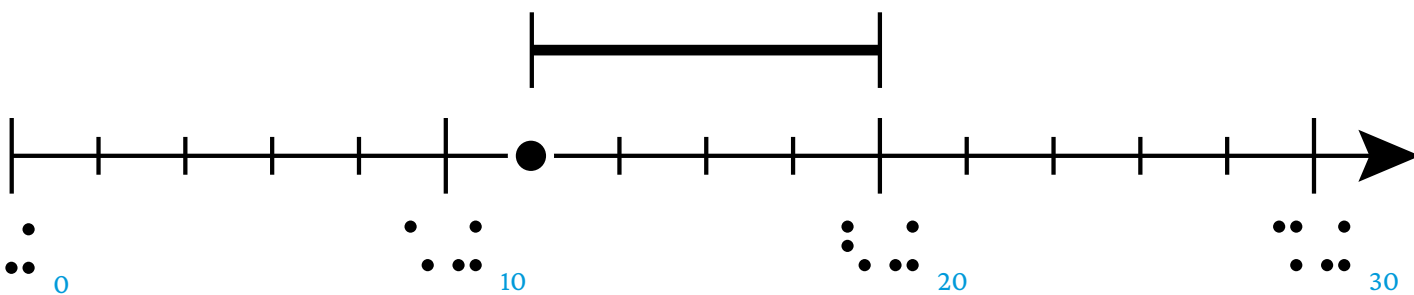
S.25 88



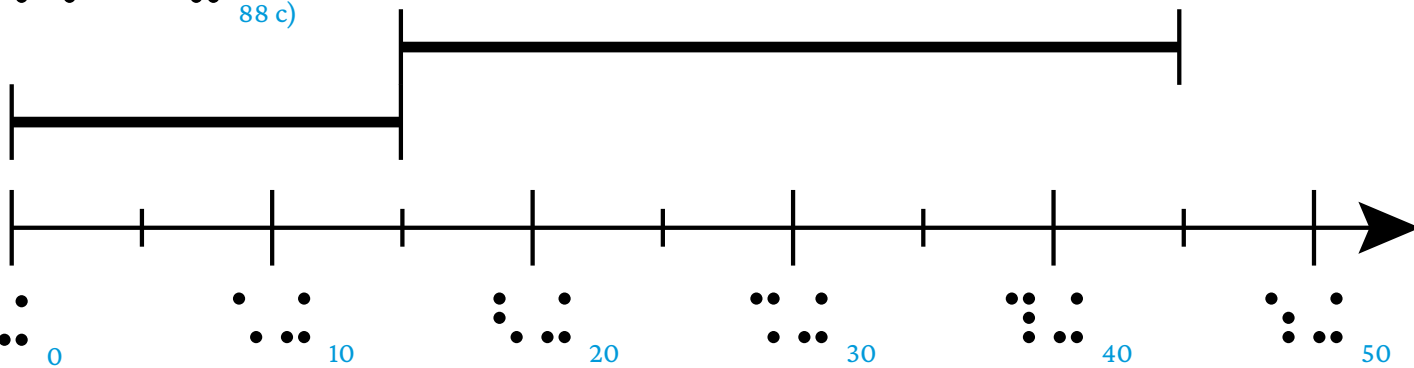
88 a)

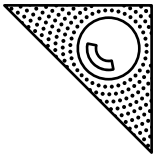


88 b)

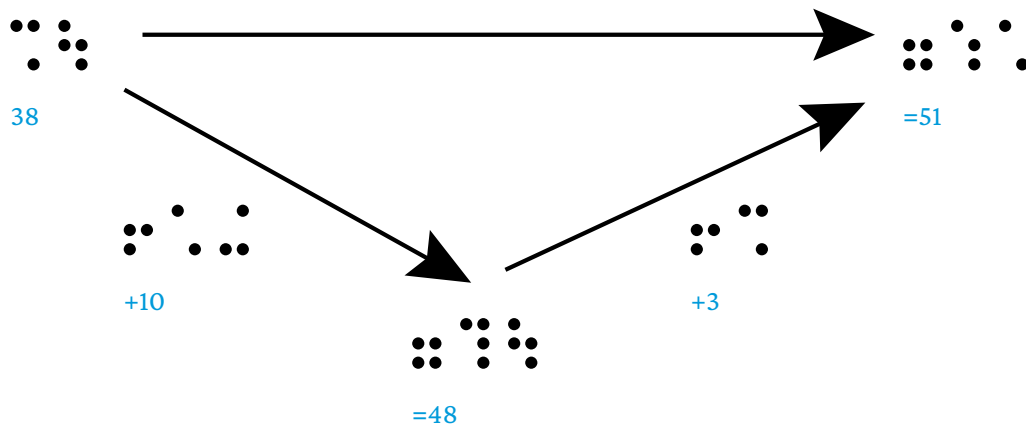


88 c)

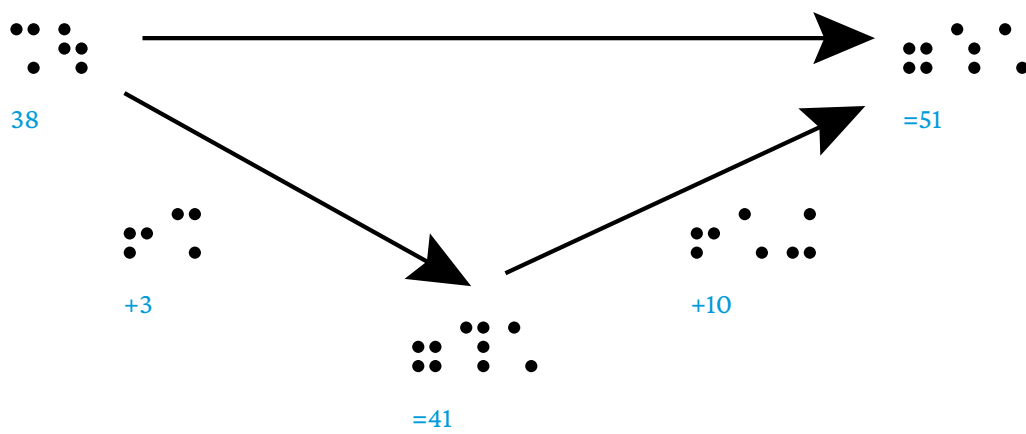


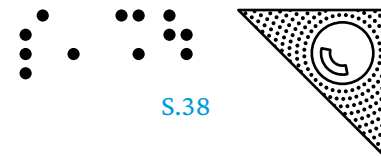
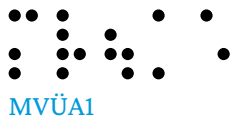


38 + 13 = ?

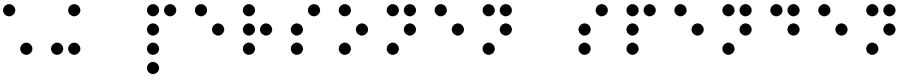
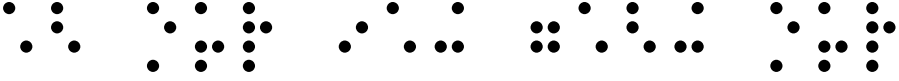


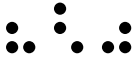
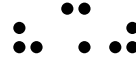
oder



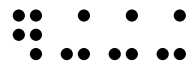


	 T	 H	 Z	 E
	 3	 1	 2	 5
 6	 (1)	 8  (1)	 4	 2
	 2	 2	 8	 3

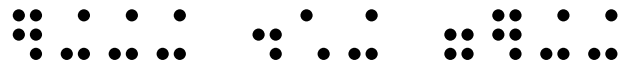
	 ZT	 T	 H	 Z	 E
 1 Person spendet  12 EUR * 1 = 12 EUR				 1	 2
 10 Personen spenden  12 EUR * 10 = 120 EUR			 1	 2	 0
 100 Personen spenden  12 EUR * 100 = 1200 EUR		 1	 2	 0	 0

 T	 H	 Z	 E
	 3	 5	 9
	 (2)	 (3)	
 1	 4	 3	 6

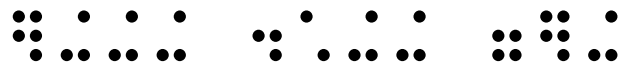

*4



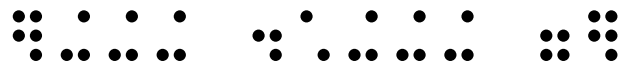
7000



7000 / 10 = 700

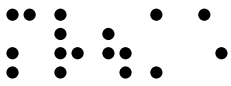


7000 / 100 = 70

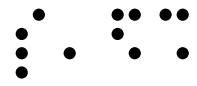


7000 / 1000 = 7

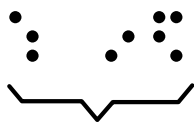
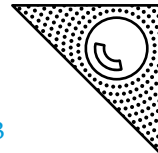
 T	 H	 Z	 E
 7	 0	 0	 0
	 7	 0	 0
		 7	 0
			 7



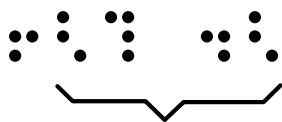
MVÜA1



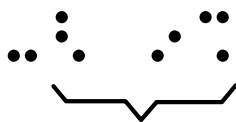
S.63



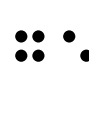
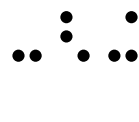
30



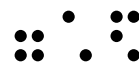
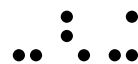
12



6



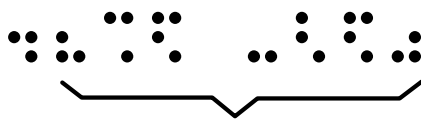
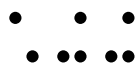
$5 * 6 + 24 / 2 - 2 * 3 - 20 = ?$



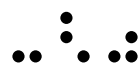
$30 + 12 - 6 - 20 = 16$



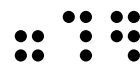
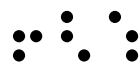
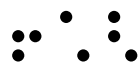
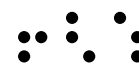
$100 / (36 - 26) + (4 - 2) * 6 + 25$



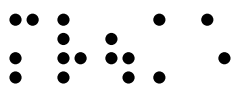
10



12



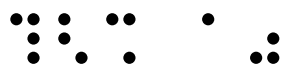
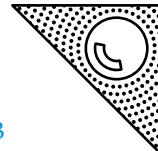
$10 + 12 + 25 = 47$



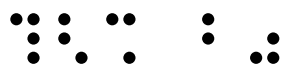
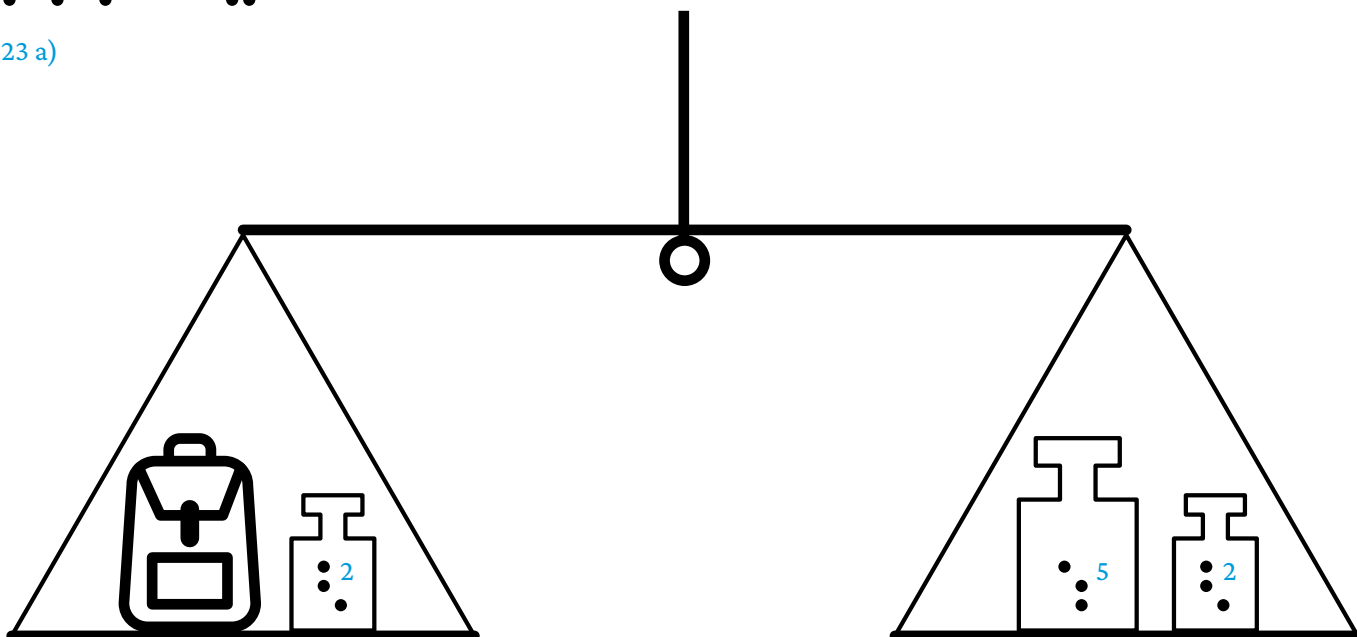
MVÜA1



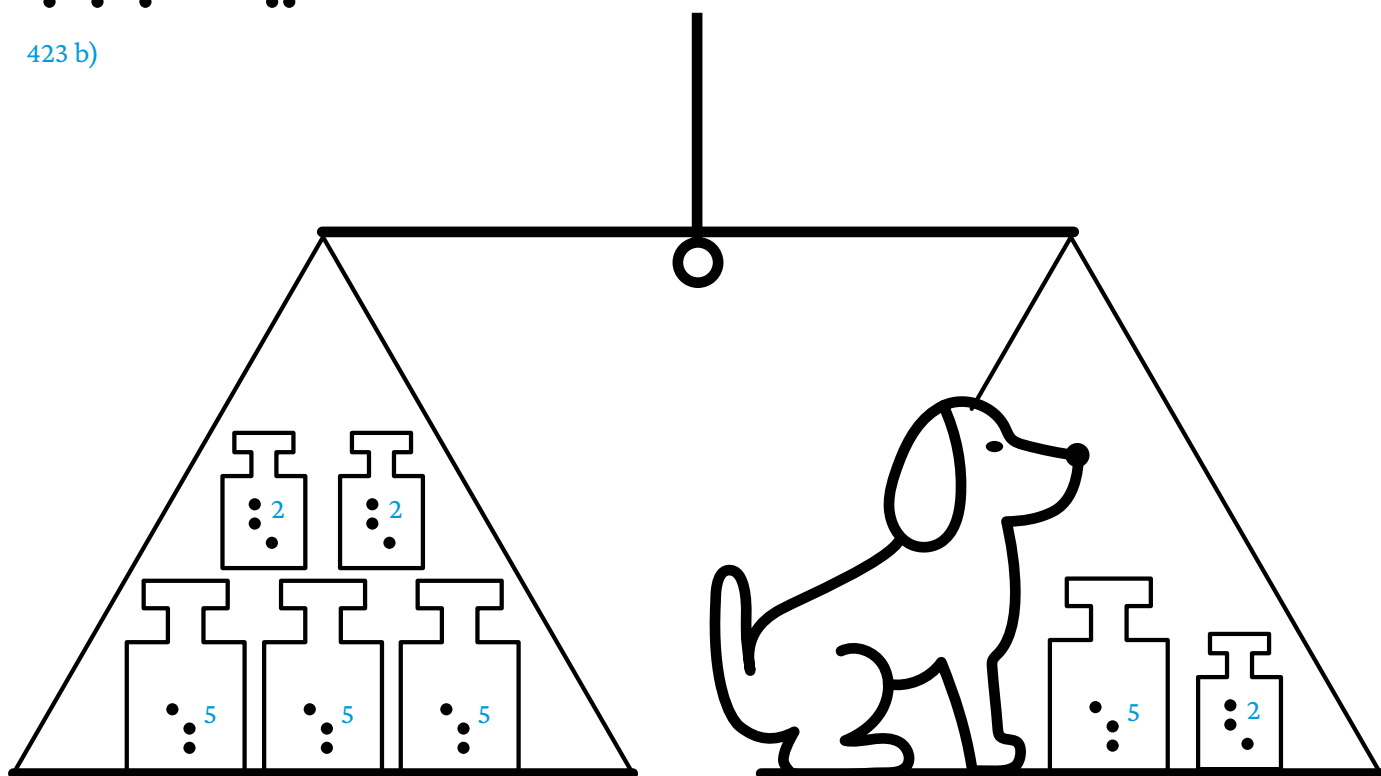
S.69 423

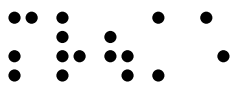


423 a)

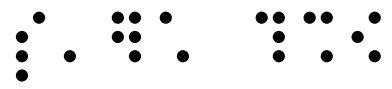


423 b)

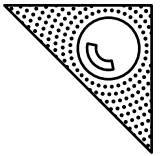




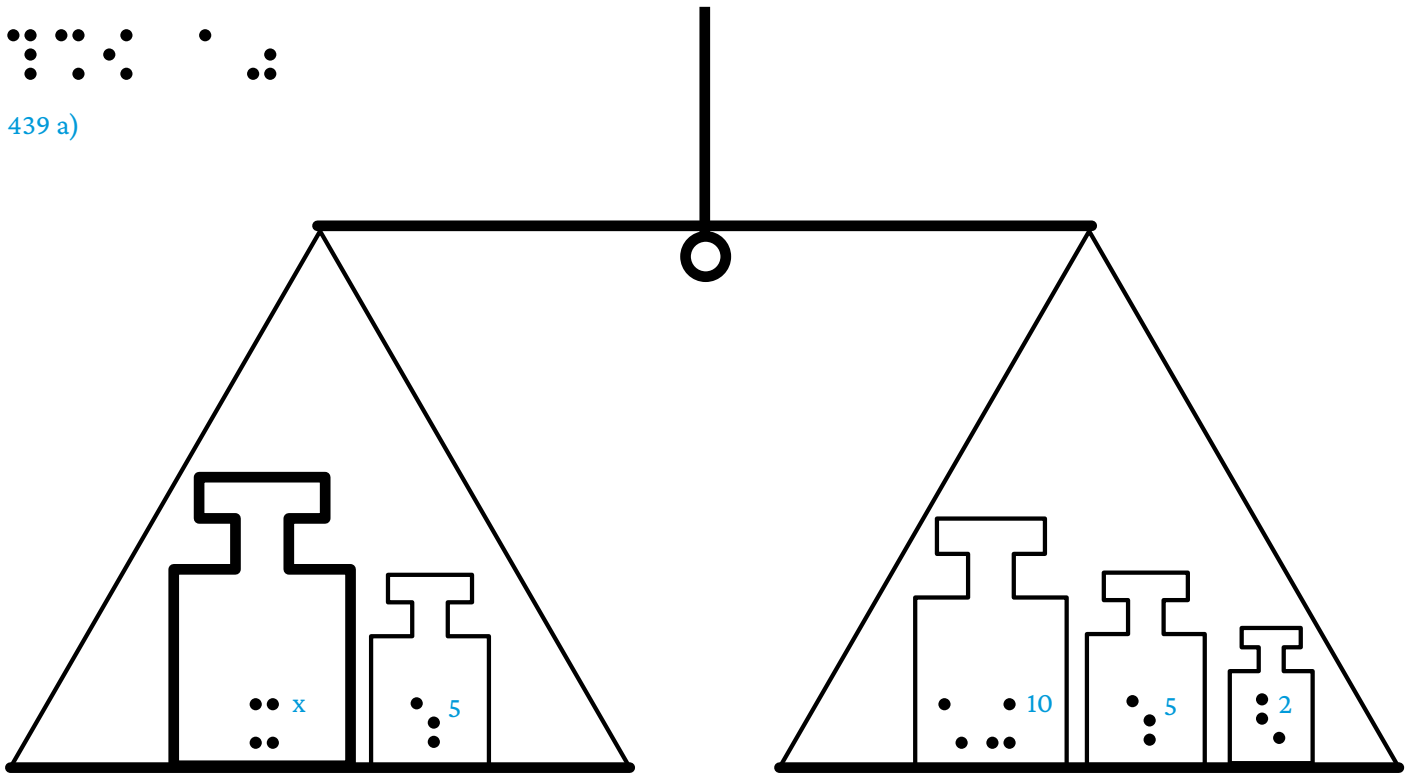
MVÜA1



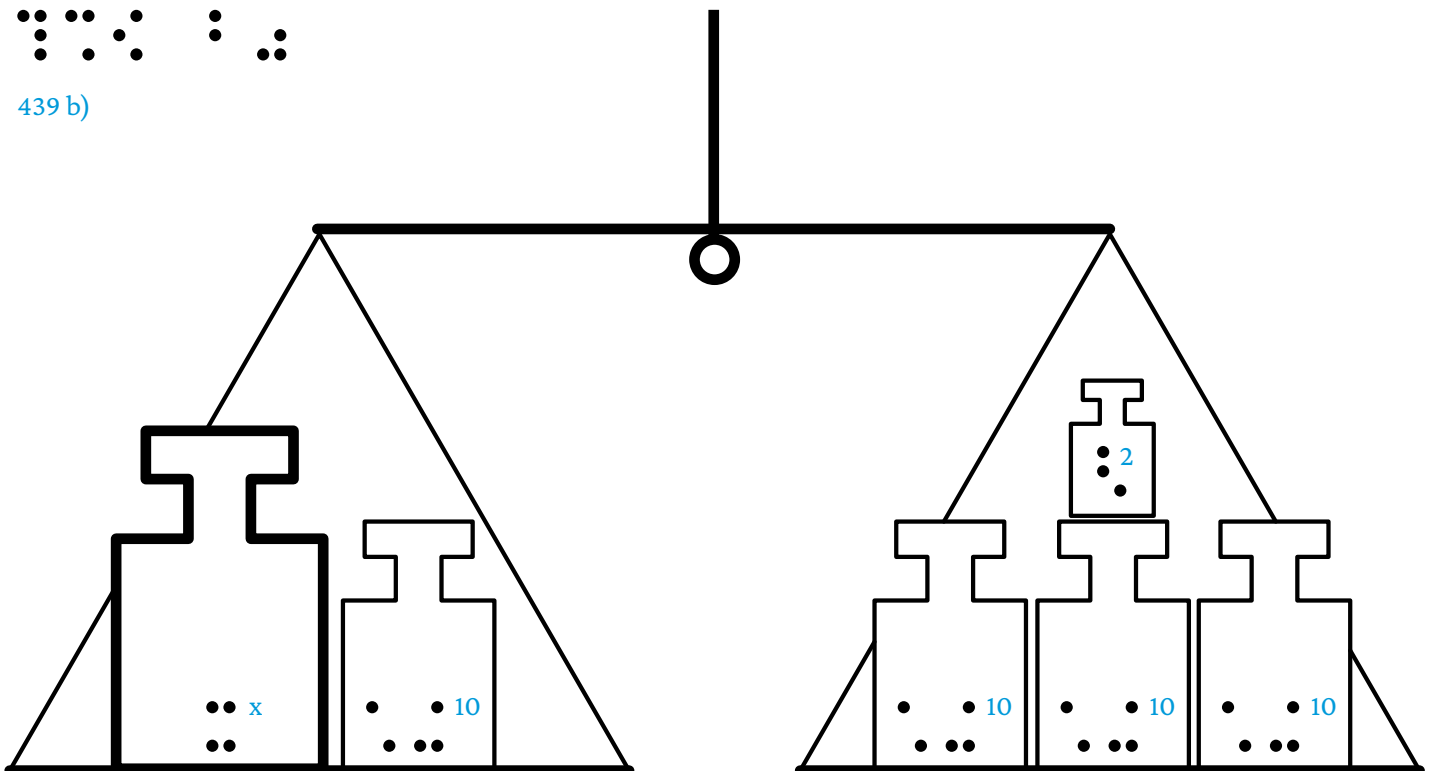
S.71 439

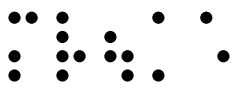


439 a)

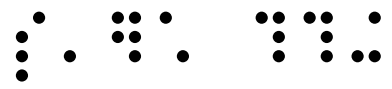


439 b)

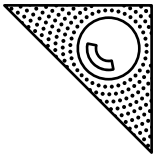




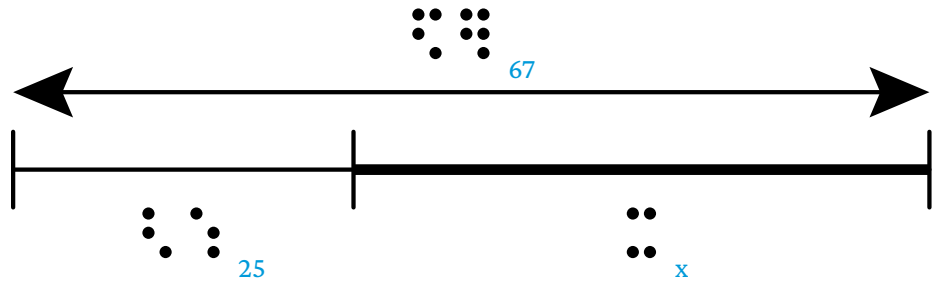
MVÜA1



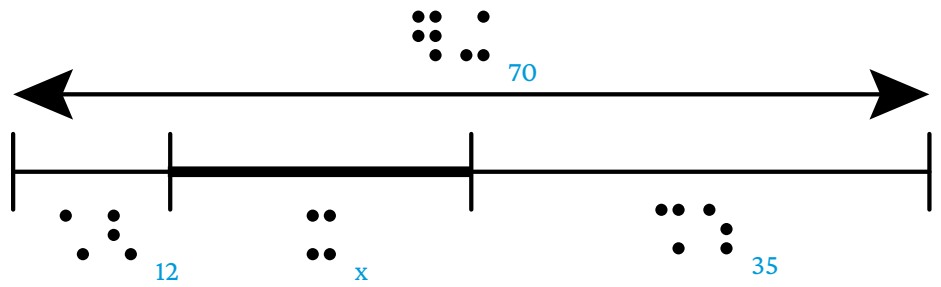
S.71 440



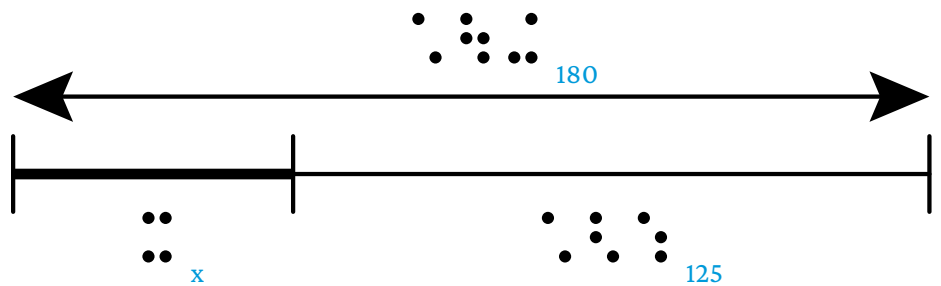
440 a)



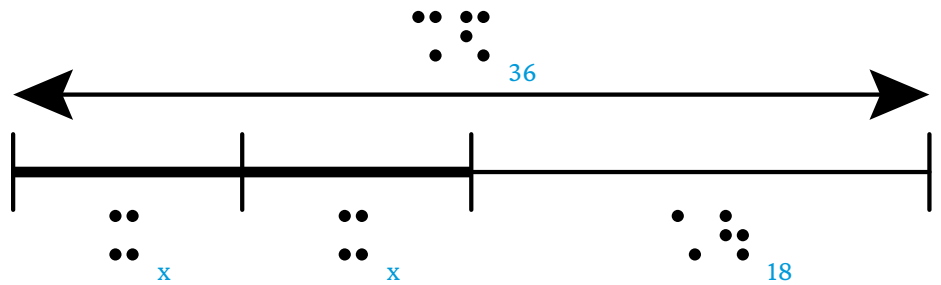
440 b)



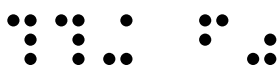
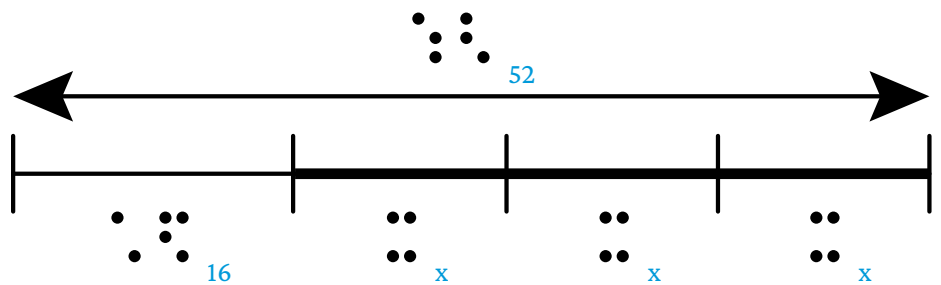
440 c)



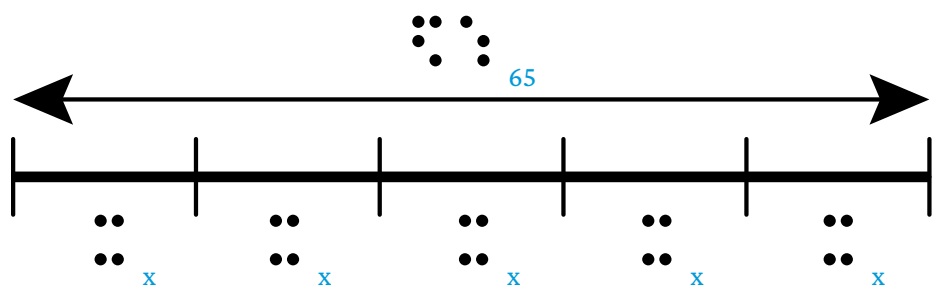
440 d)

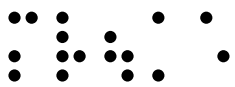


440 e)

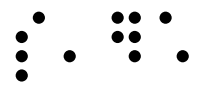


440 f)

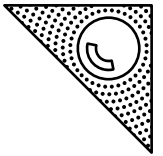




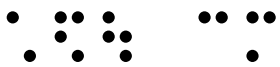
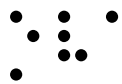
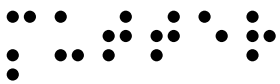
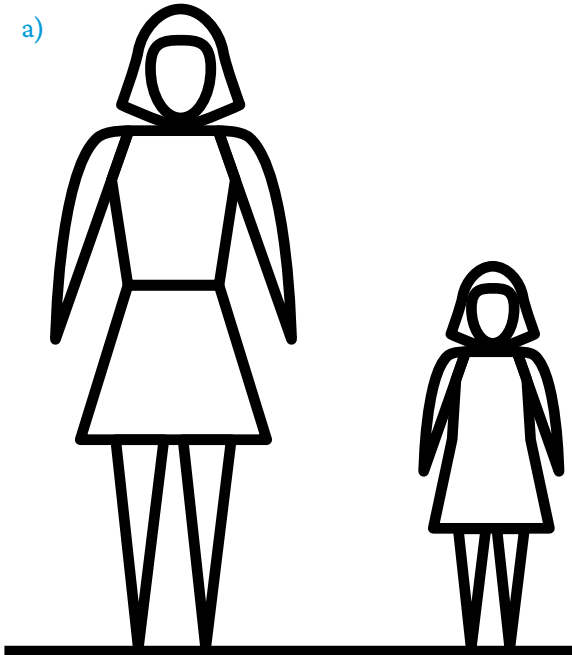
MVÜA1



S.71



a)

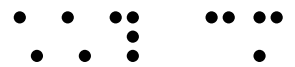
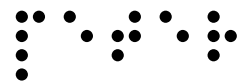
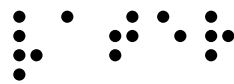
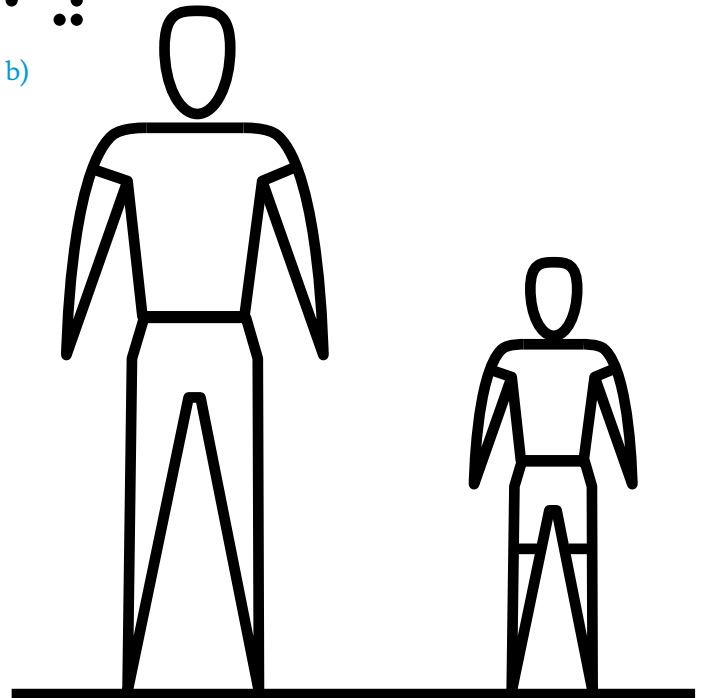


Mutter 168 cm

Eva 94 cm



b)

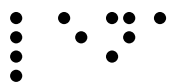
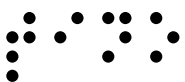
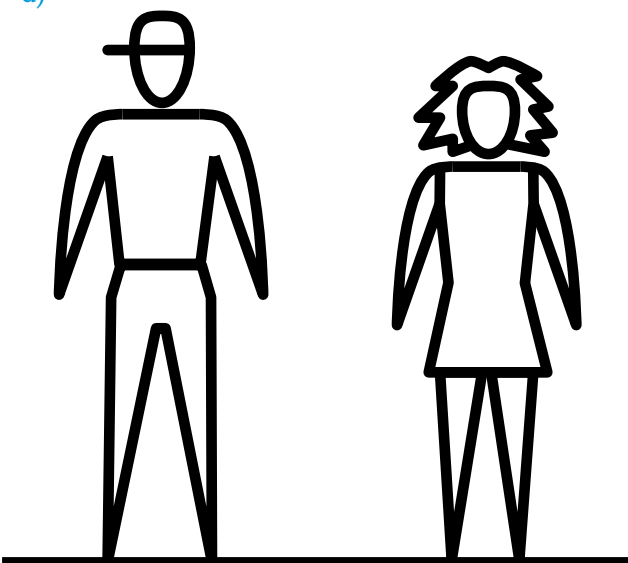


Vater 182 cm

Peter 114 cm



d)

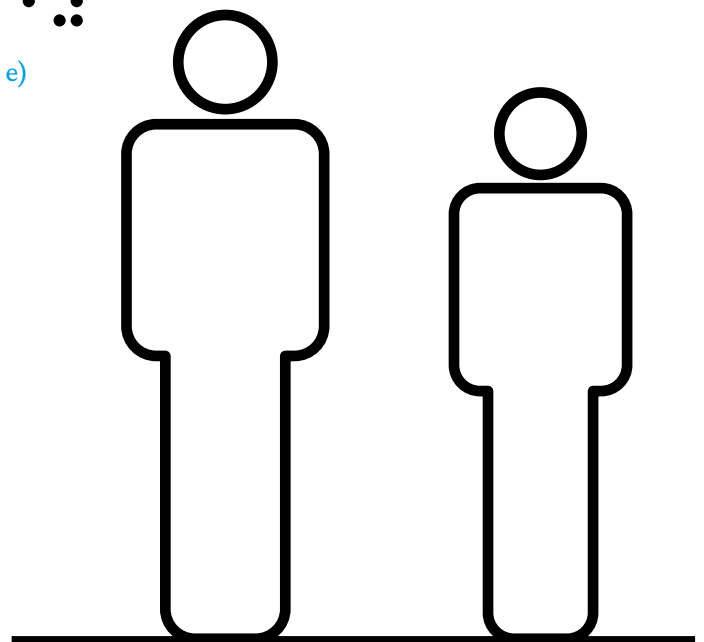


Tino 158 cm

Lena 146 cm



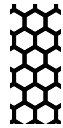
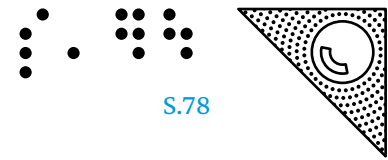
e)



A a cm

B b cm

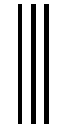
MVÜA1



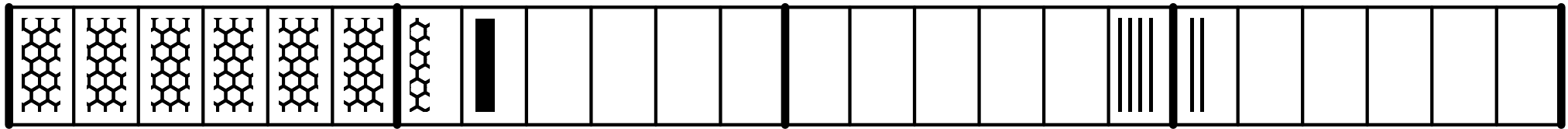
Schlaf



Essen



Sport



0:00

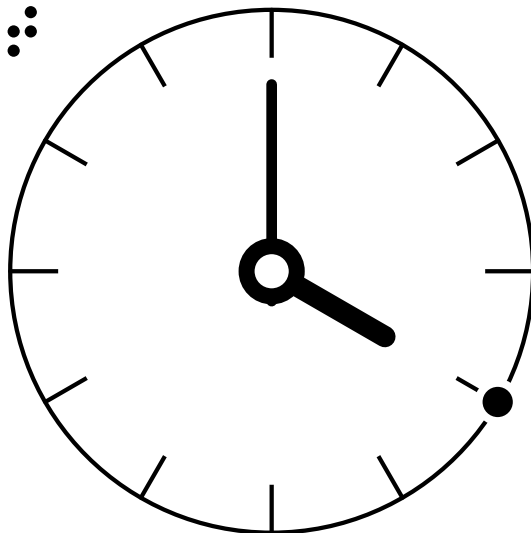
6:00

12:00

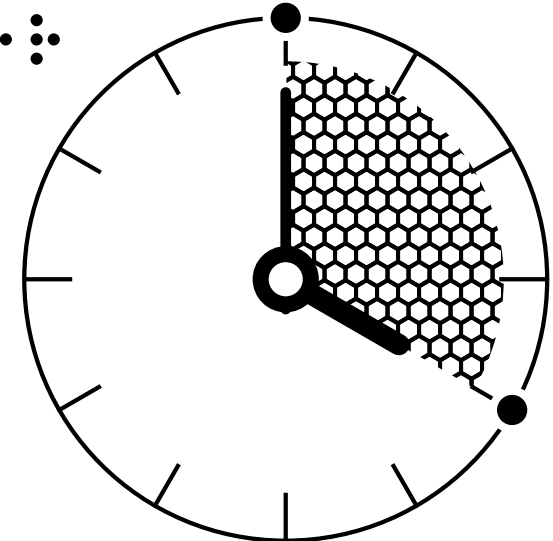
18:00

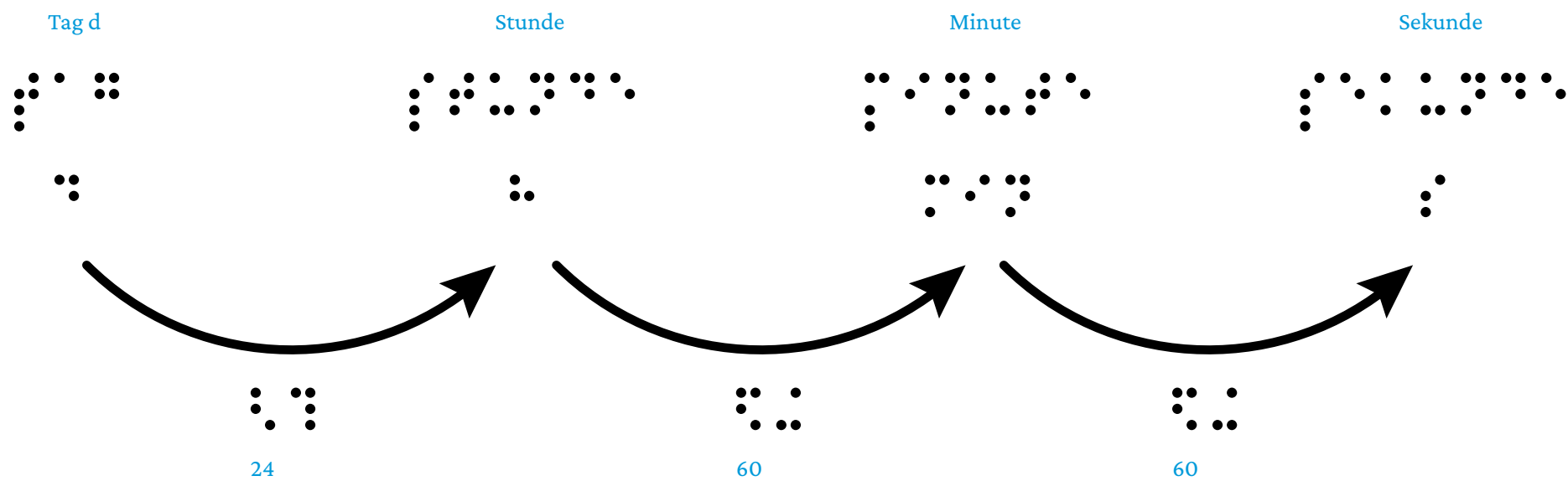
24:00

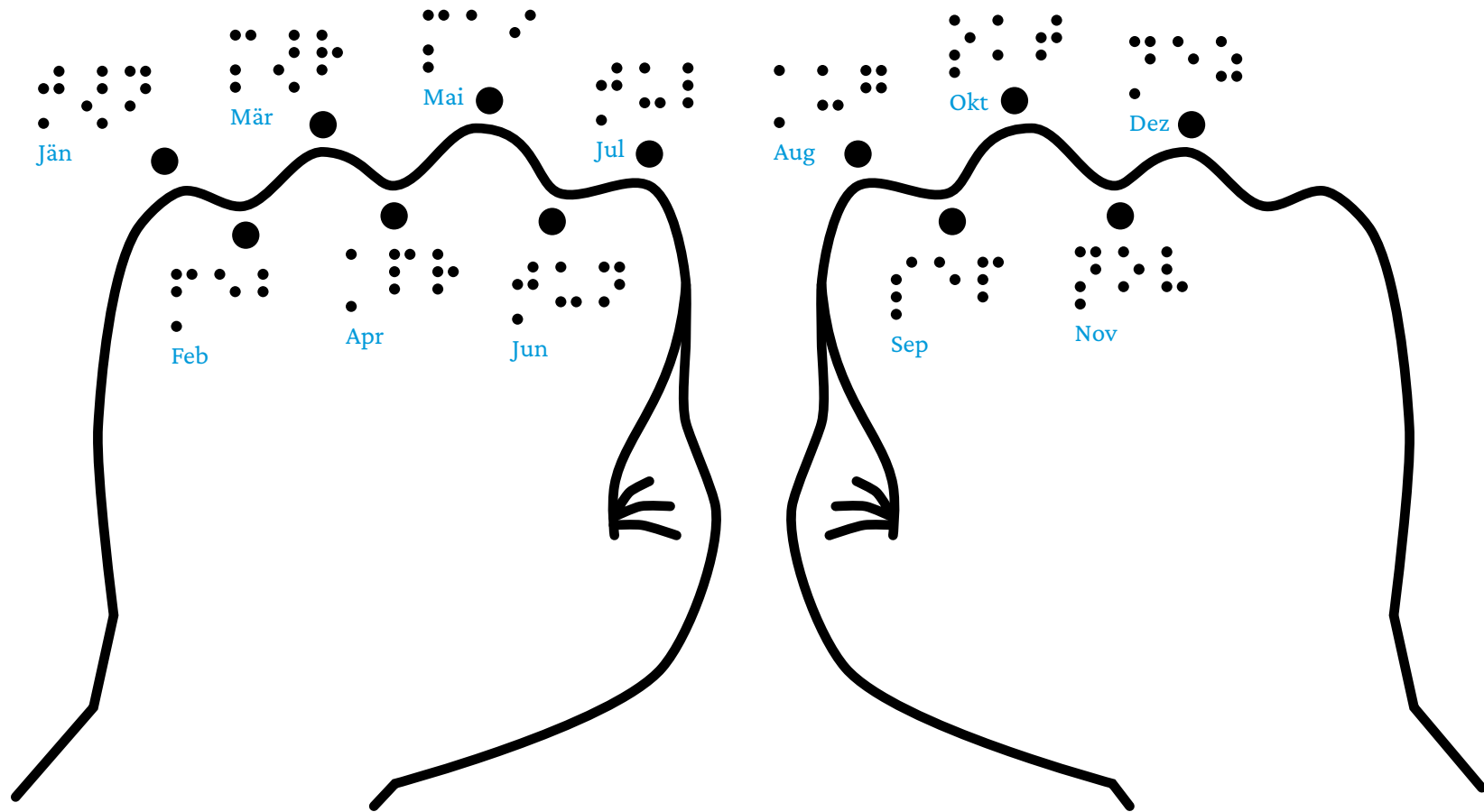
Zeitpunkt

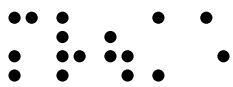


Zeitdauer

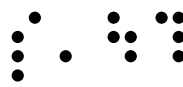




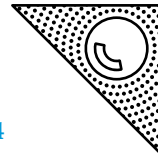




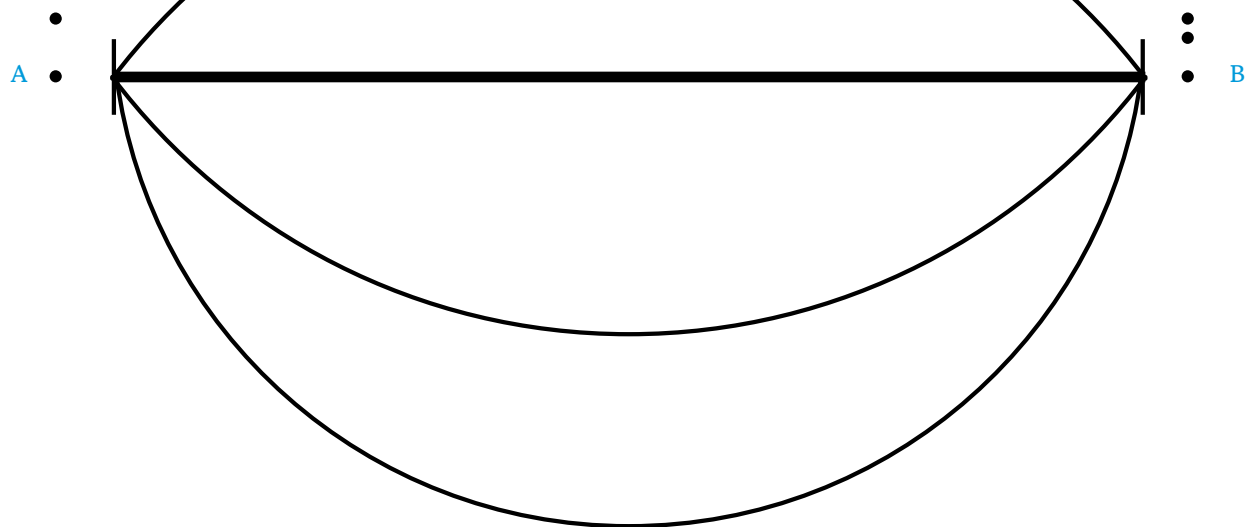
MVÜA1



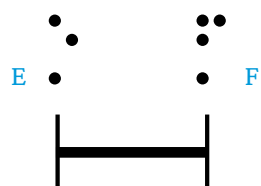
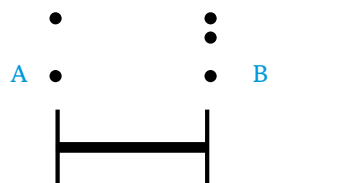
S.84

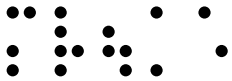


1)

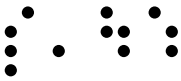


2)

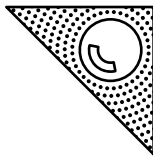




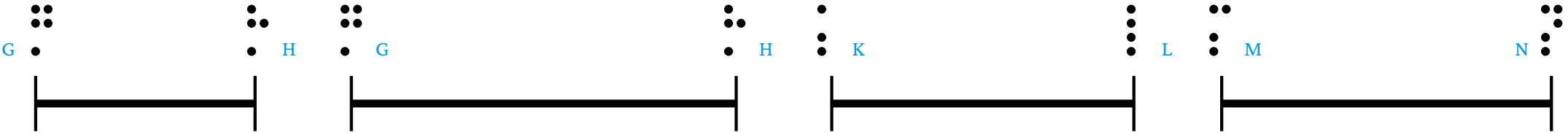
MVÜA1

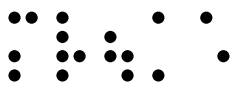


S.85 499



499

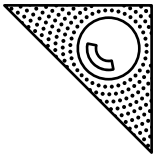




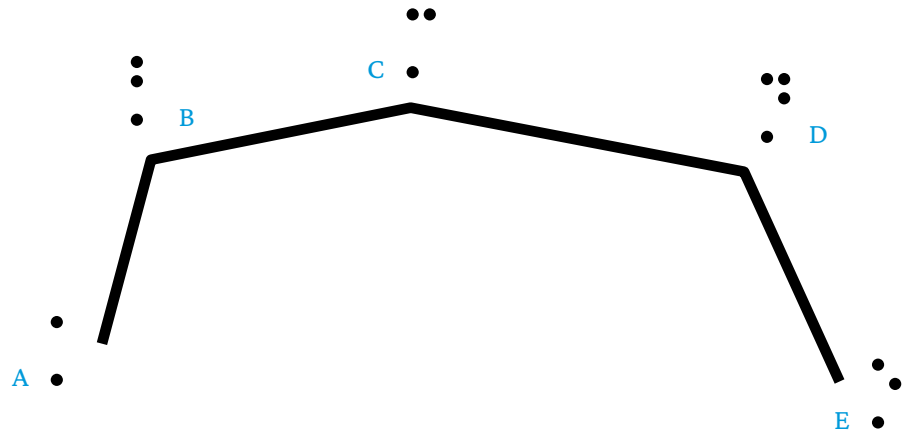
MVÜA1



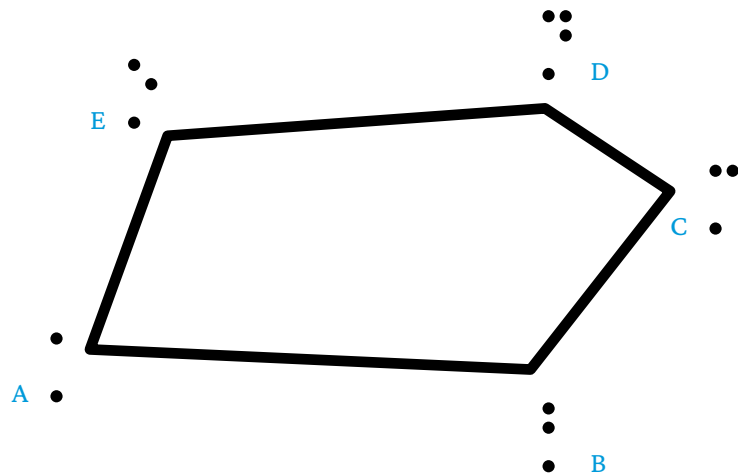
S.85 500

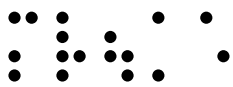


500 a)

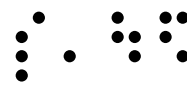


500 b)





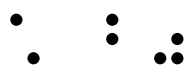
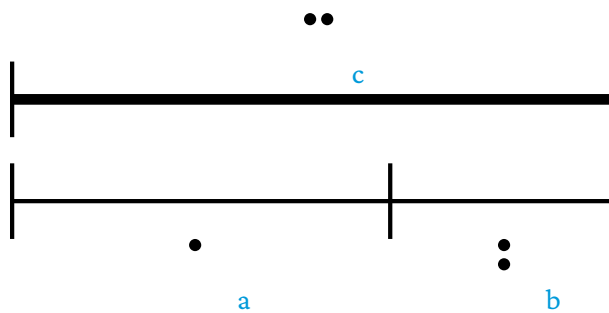
MVÜA1



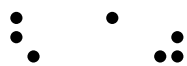
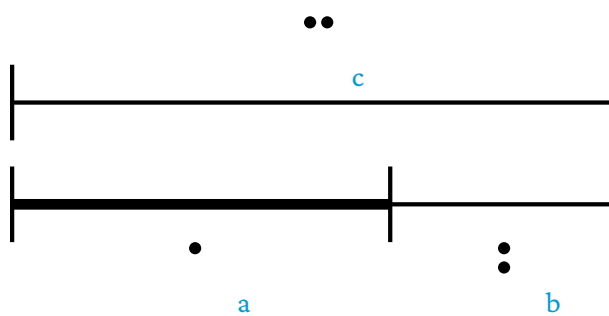
S.86



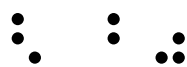
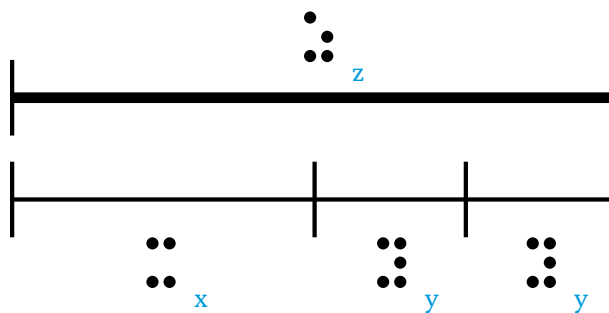
1 a)



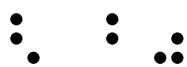
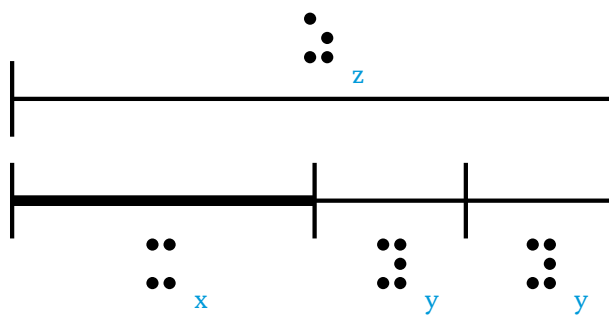
1 b)



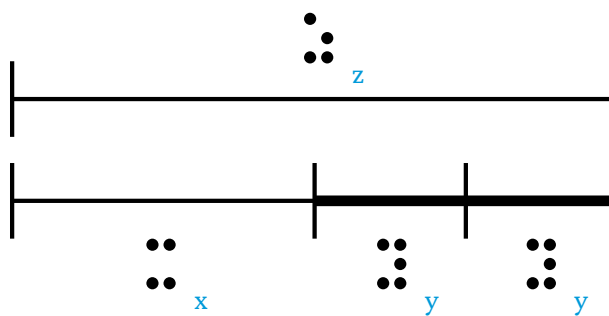
2 a)

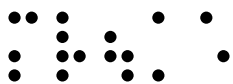


2 b)

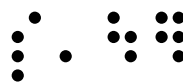


2 b)





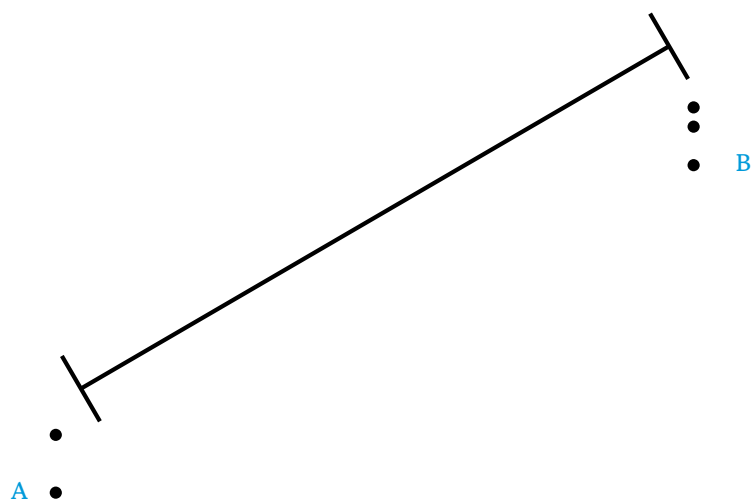
MVÜA1



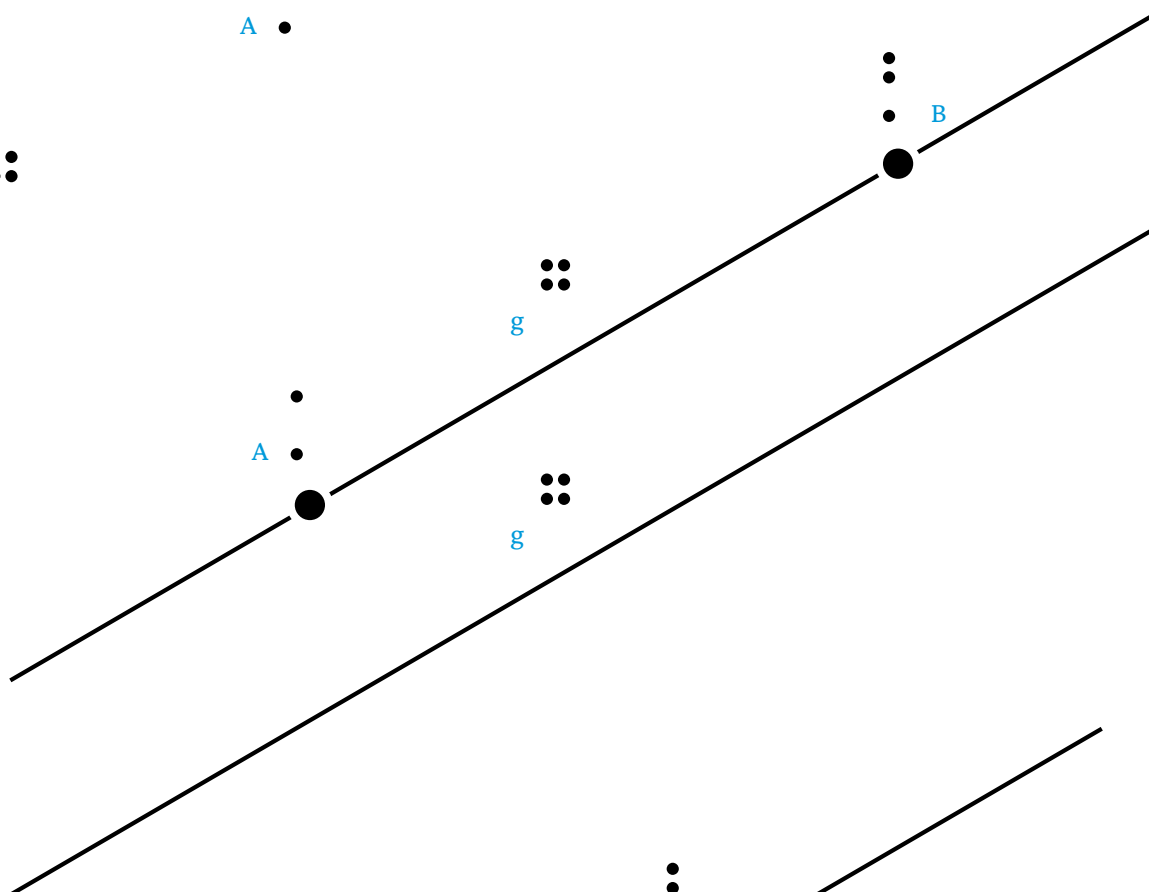
S.87



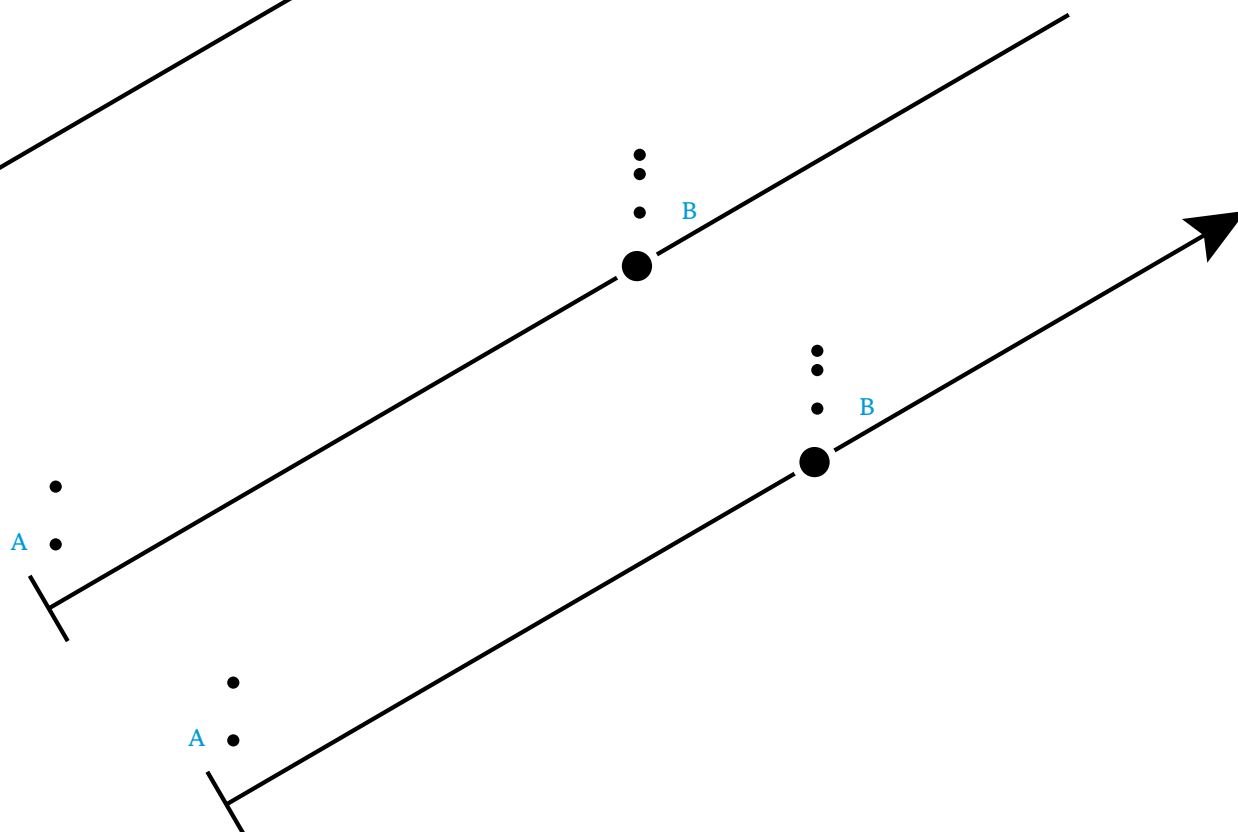
1)

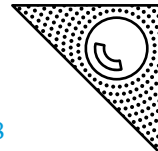
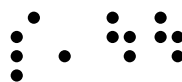
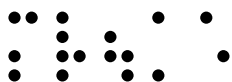


2)

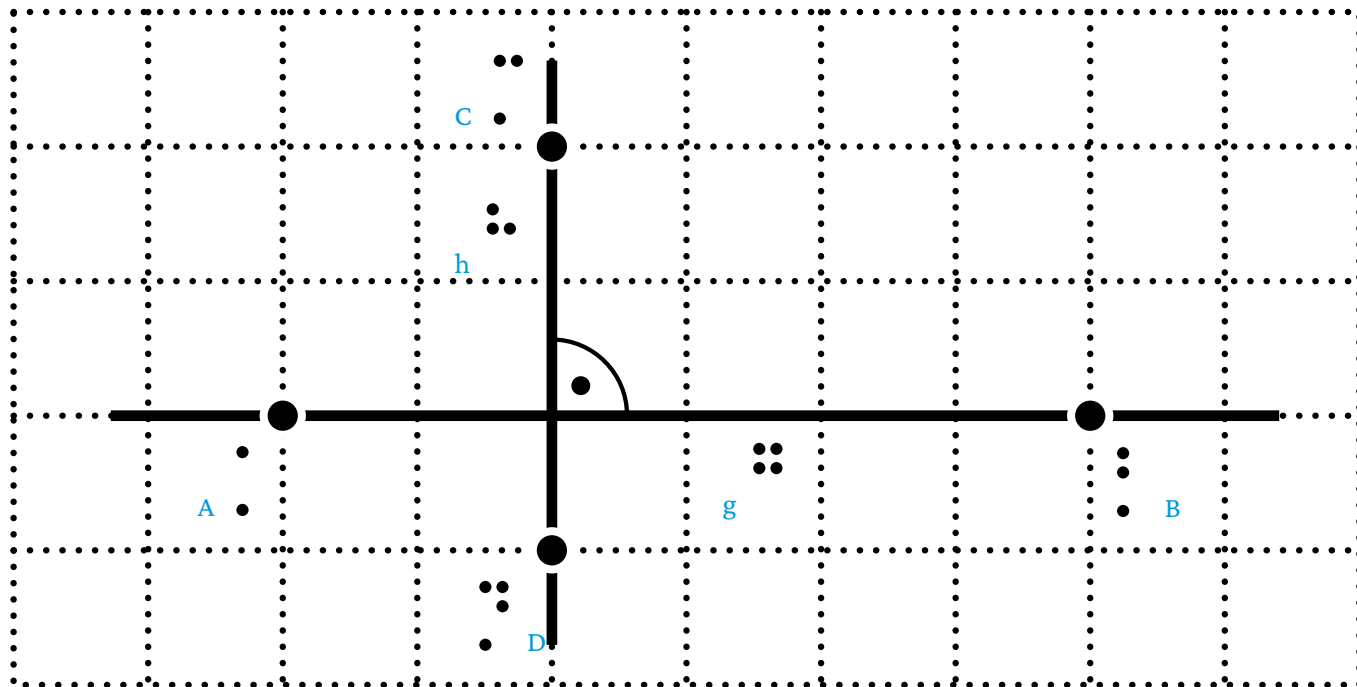


3)

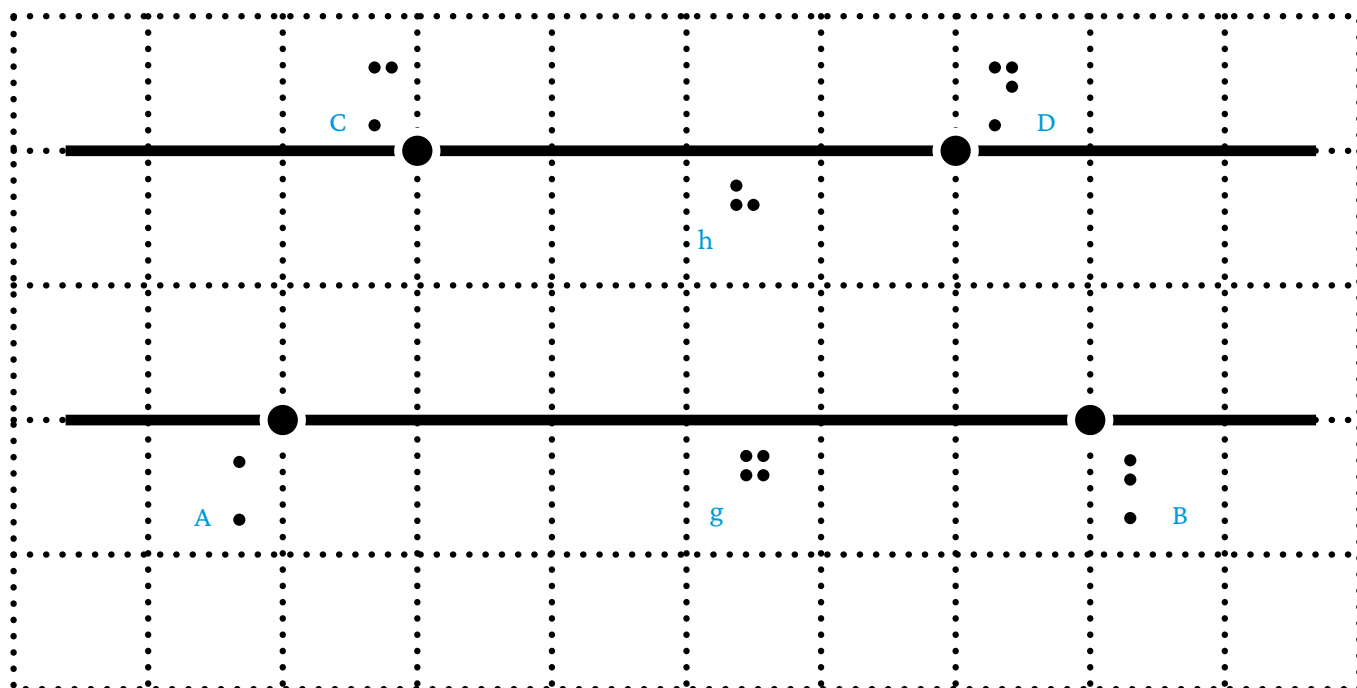


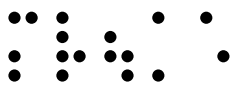


a)

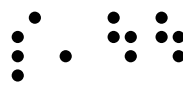


b)

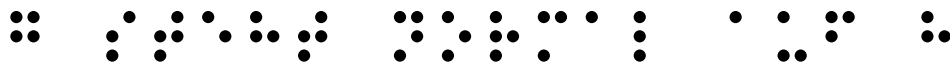
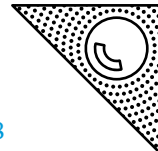




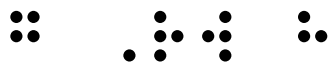
MVÜA1



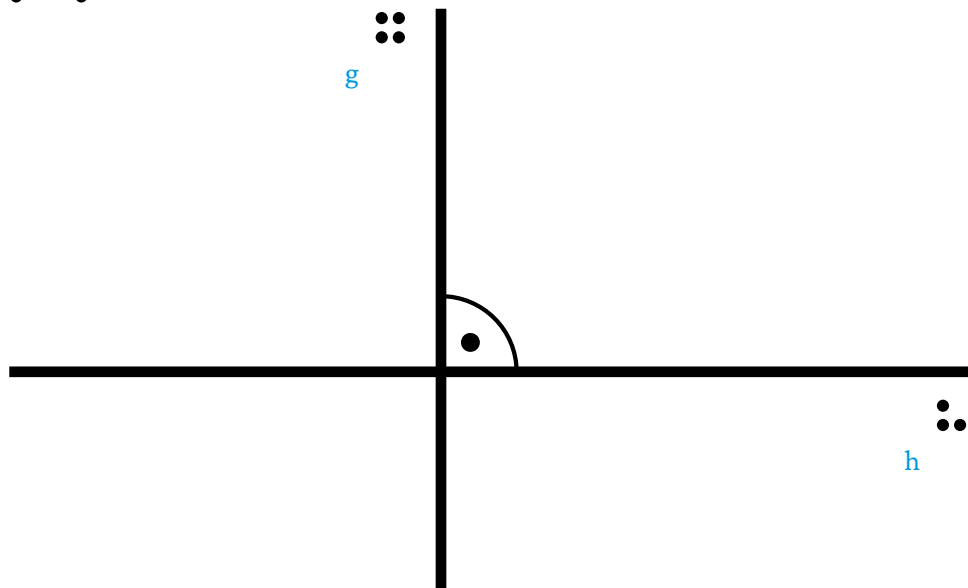
S.88



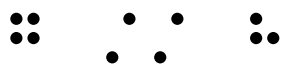
g steht normal auf h



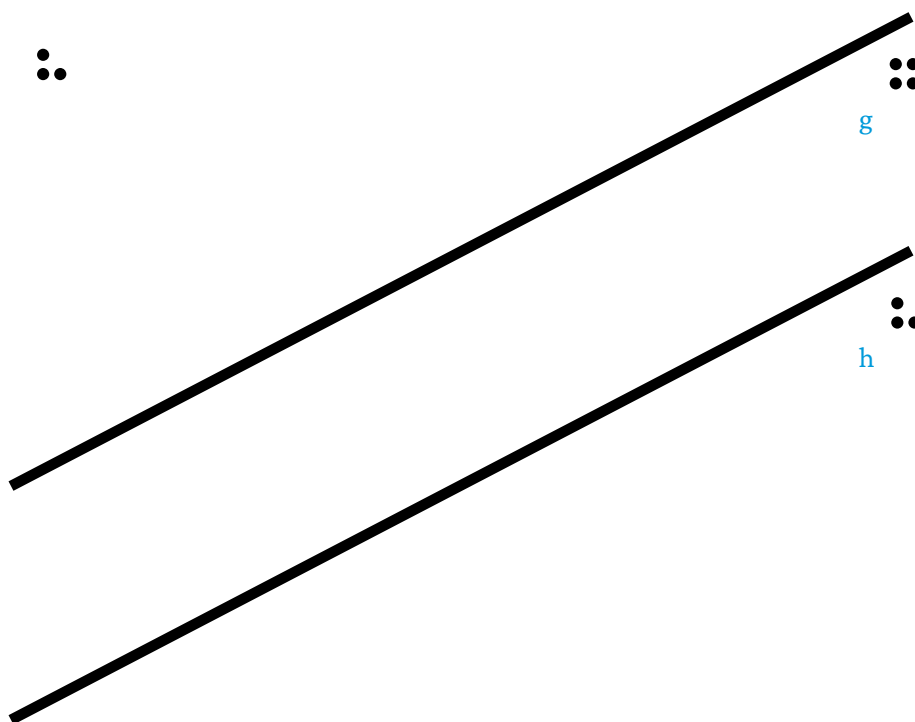
g 'rwh

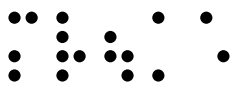


g ist parallel zu h



g || h





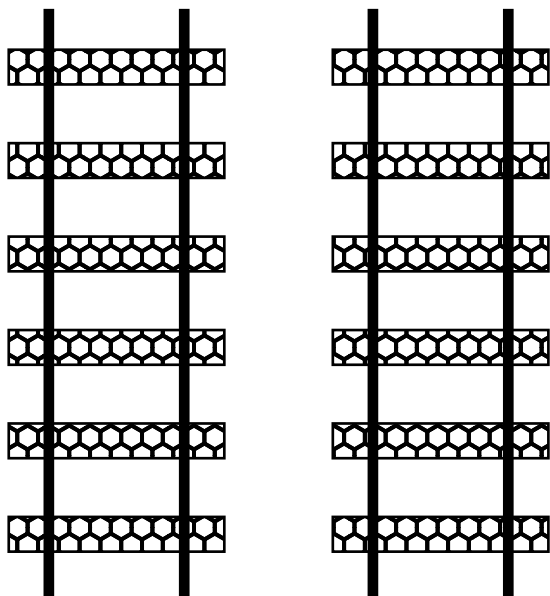
MVÜA1



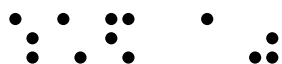
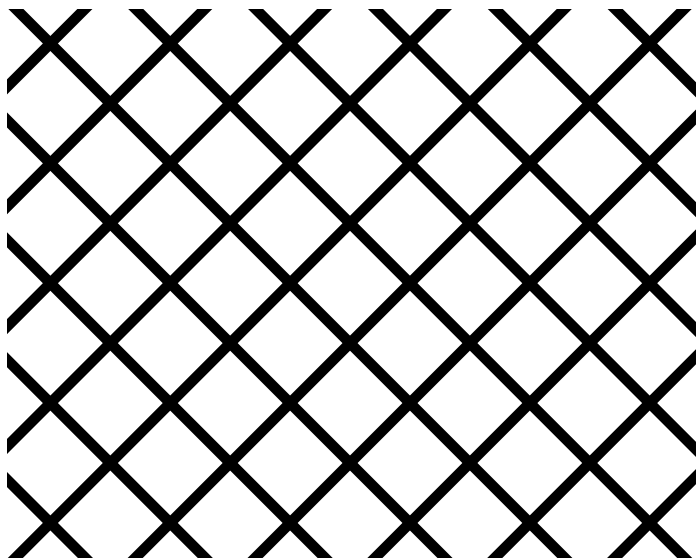
S.89 515, 516



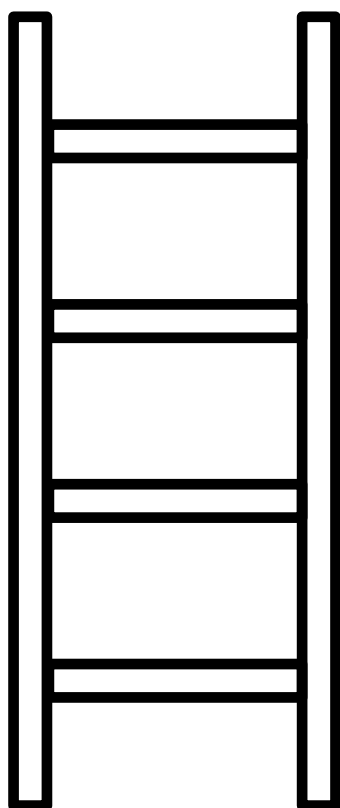
515 a)



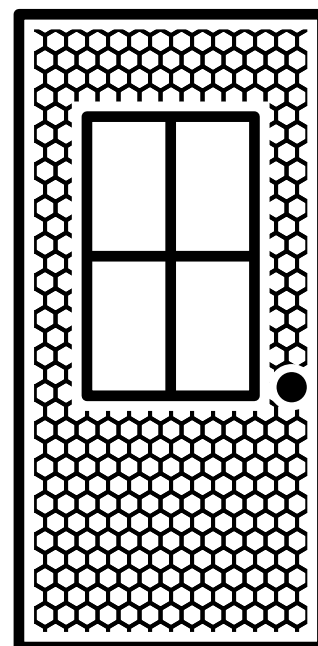
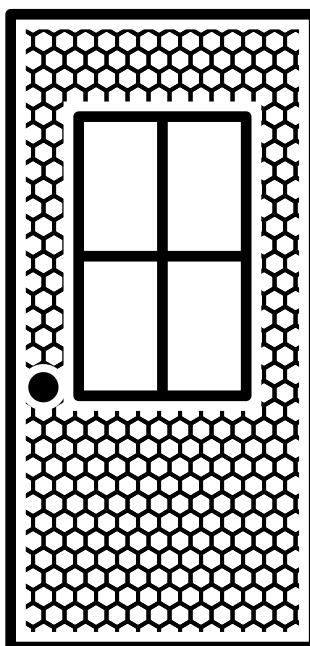
515 b)

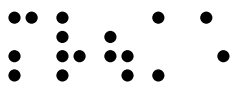


516 a)

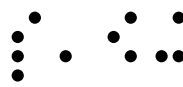


516 b)

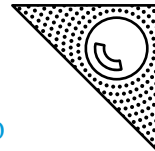




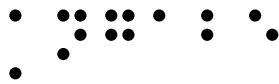
MVÜA1



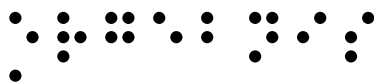
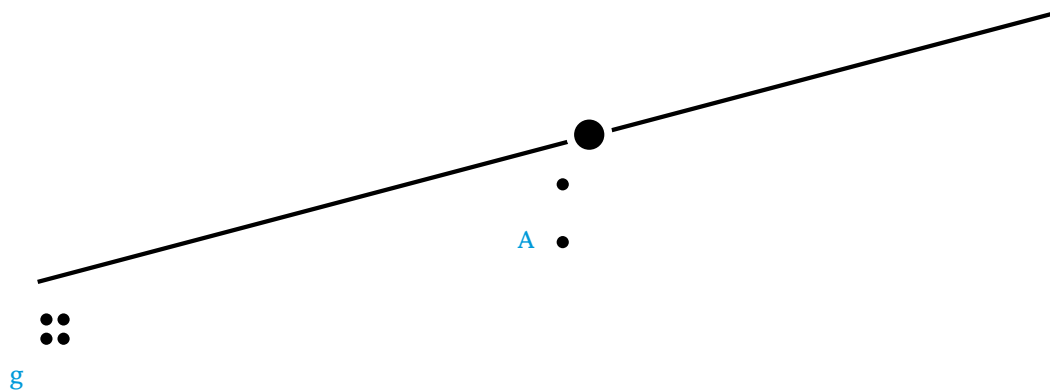
S.90



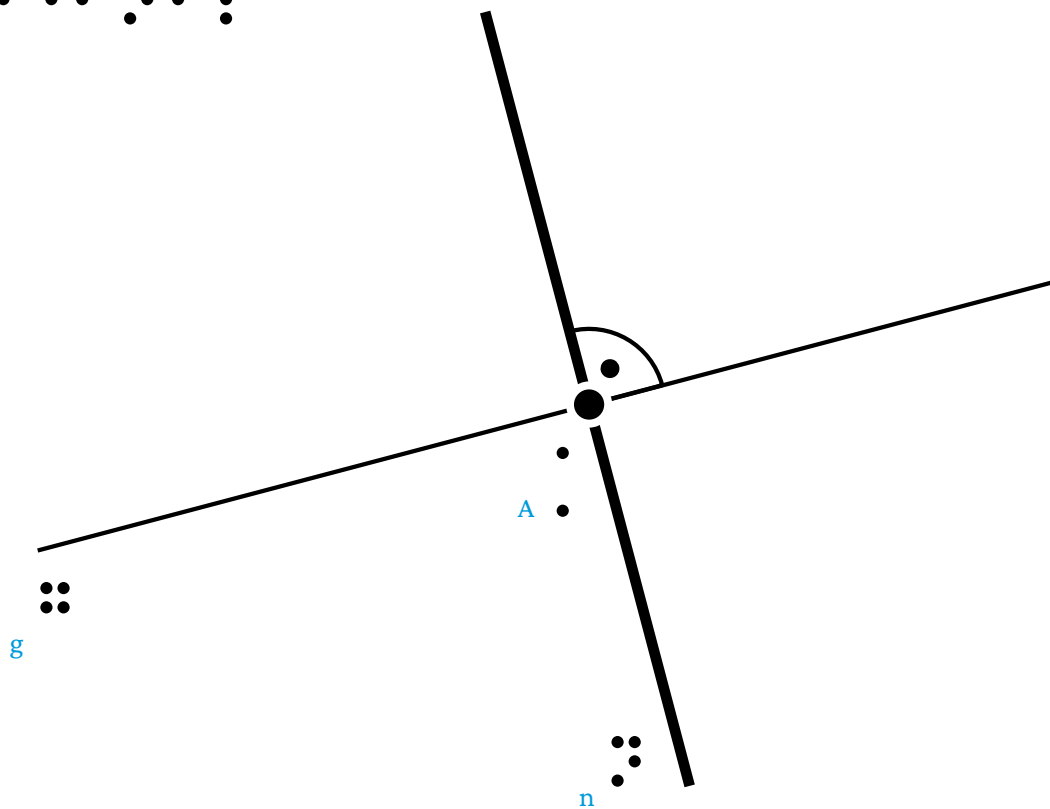
1)

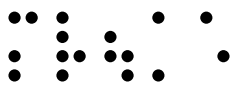


Angabe

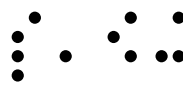


Ergebnis

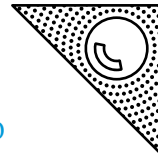




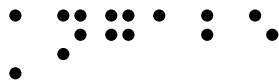
MVÜA1



S.90



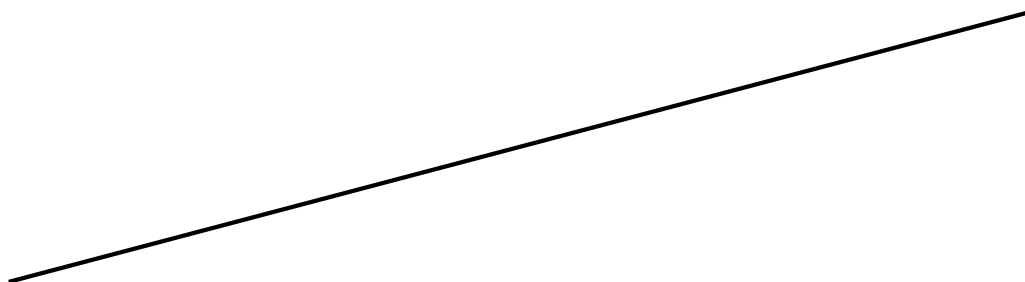
2)



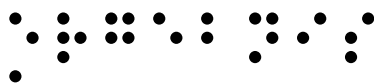
Angabe



P



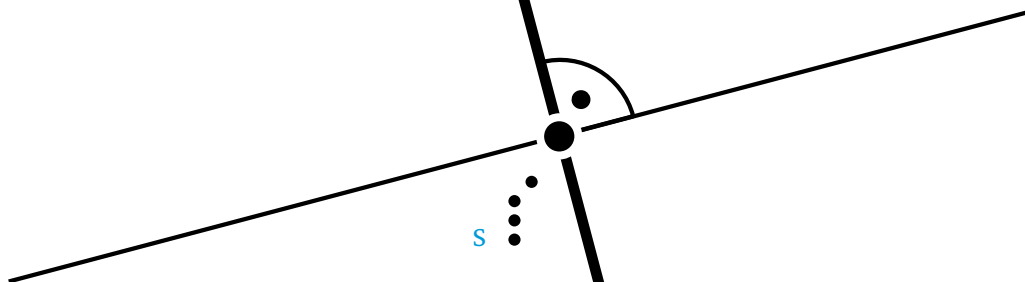
g



Ergebnis



P



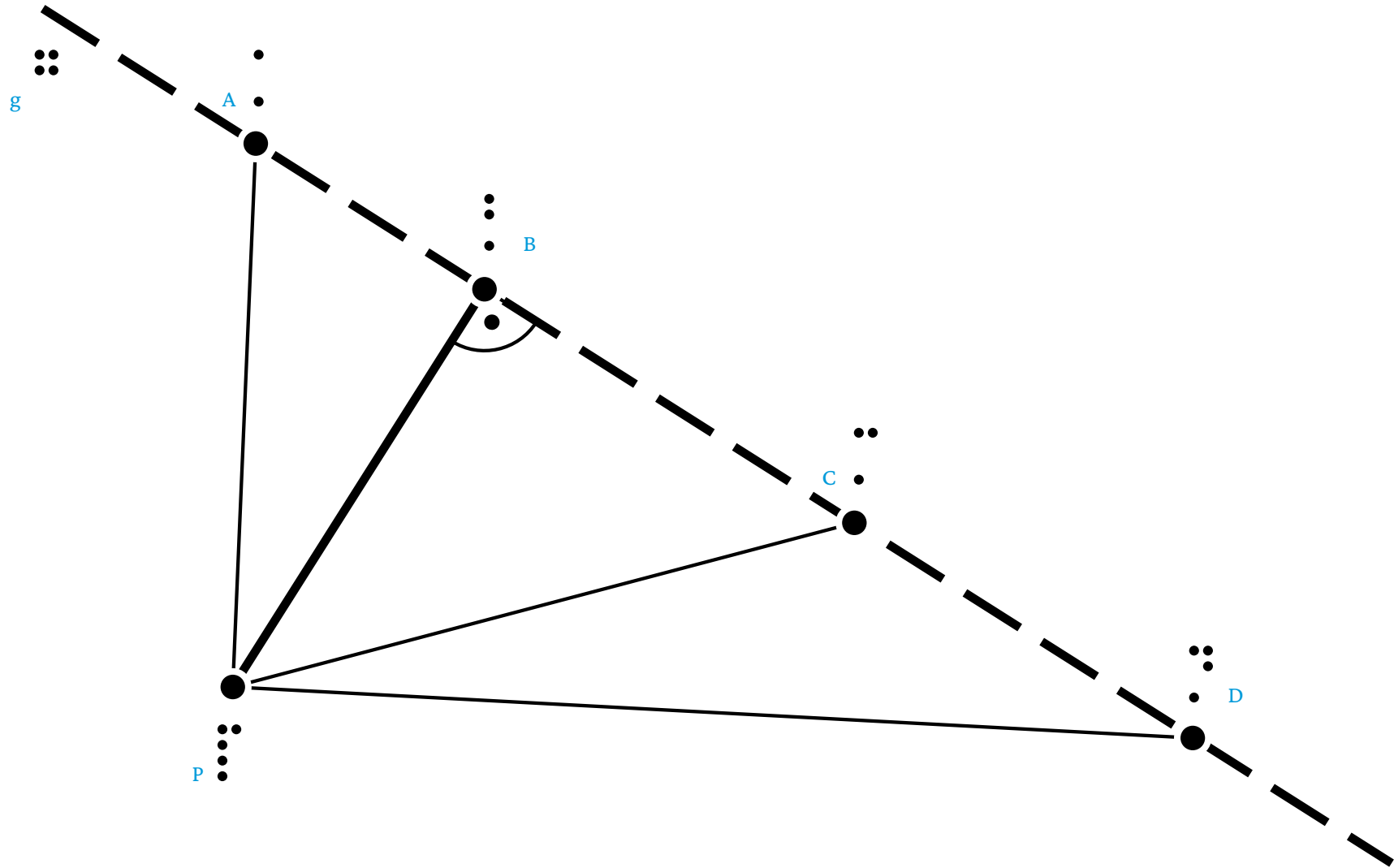
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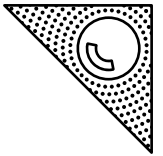
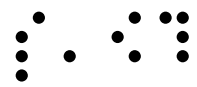
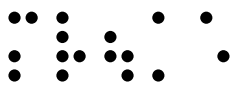


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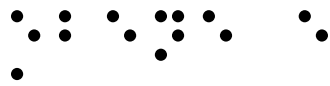
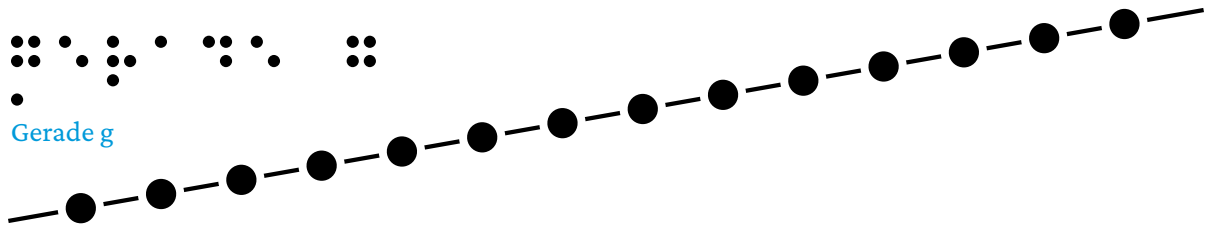


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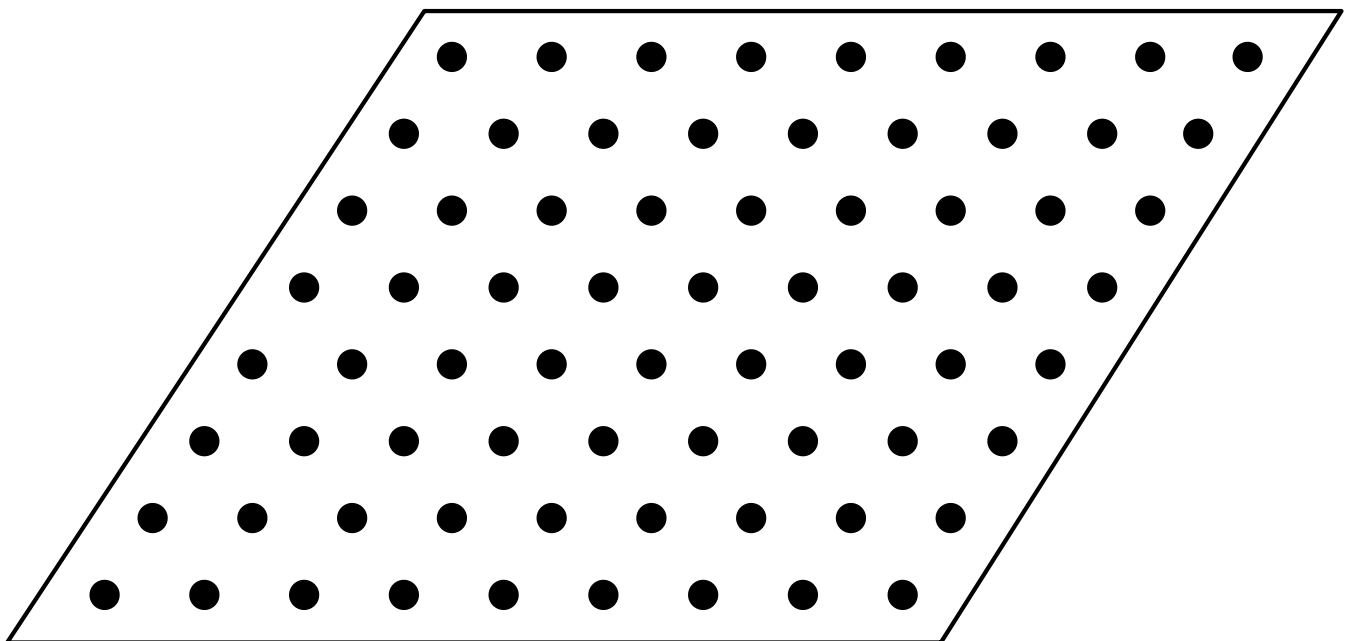




Gerade g

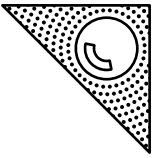


Ebene e

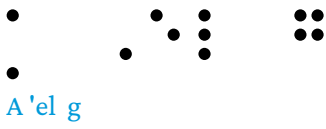
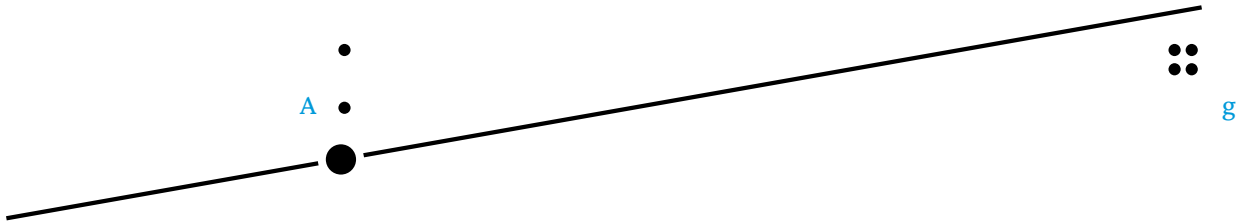




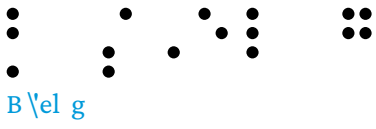
MVÜA1 S.94



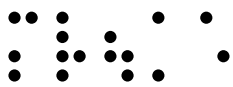
B



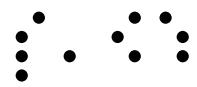
A 'el g



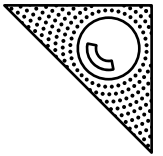
B \el g



MVÜA1



S.95

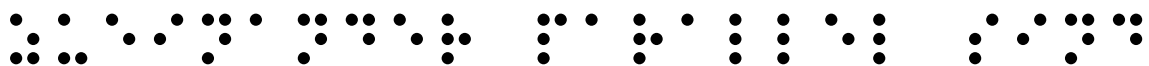
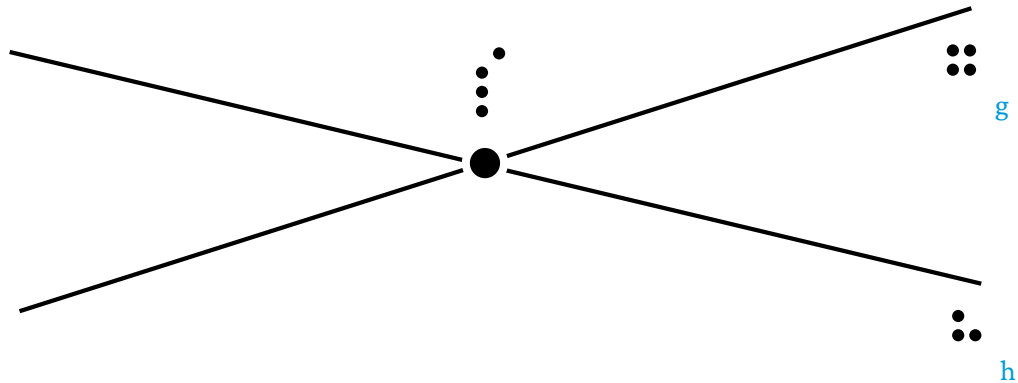


einander schneiden

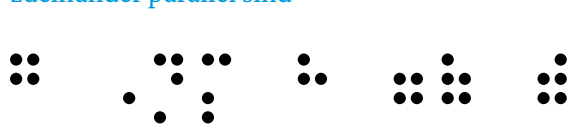


$g'DM h = \{S\}$

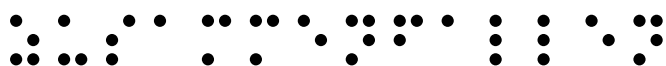
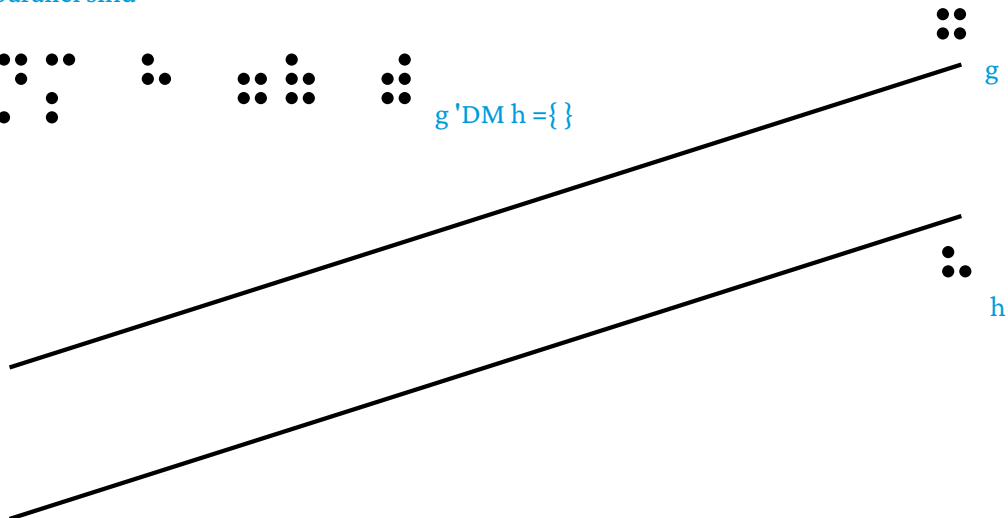
S



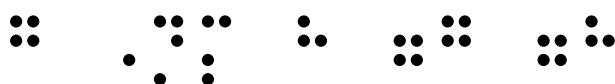
zueinander parallel sind



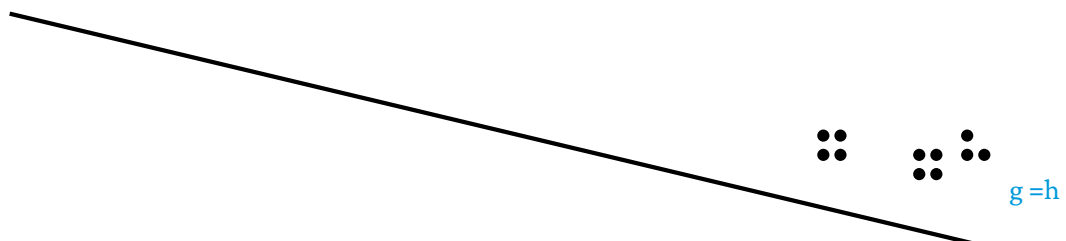
$g'DM h = \{ \}$

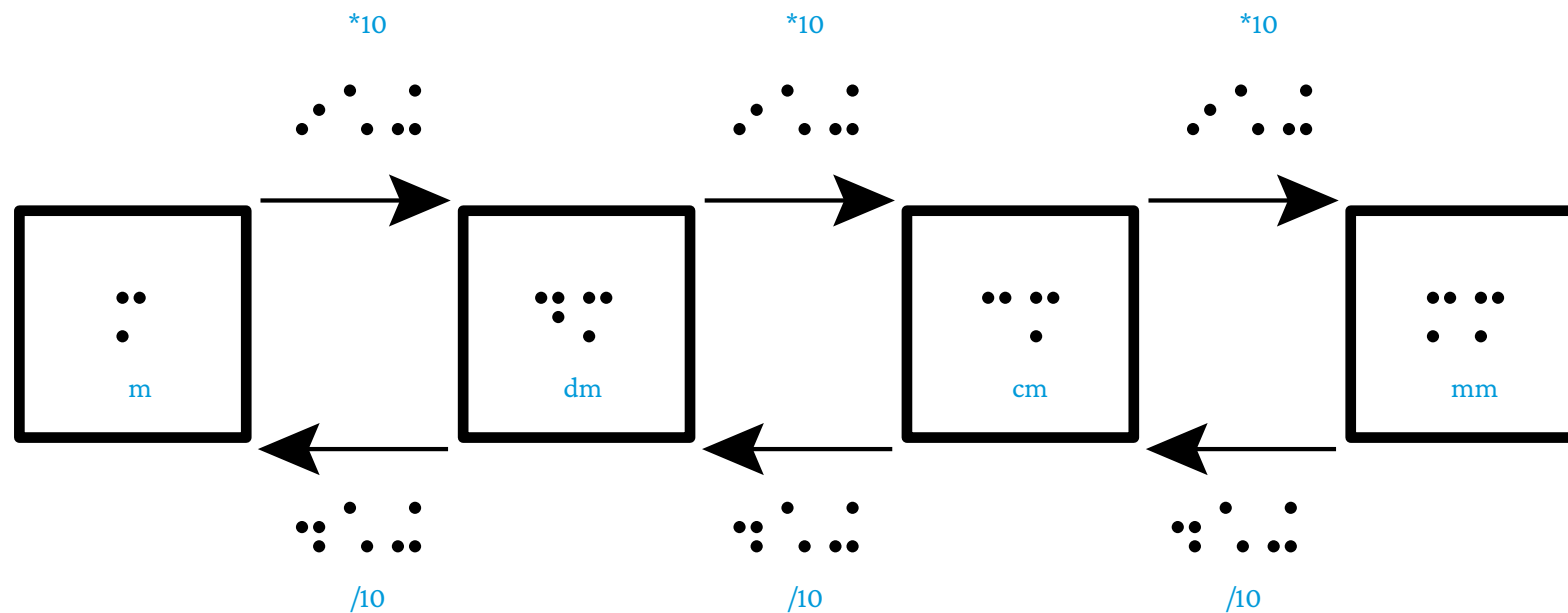


zusammenfallen



$g'DM h = g = h$



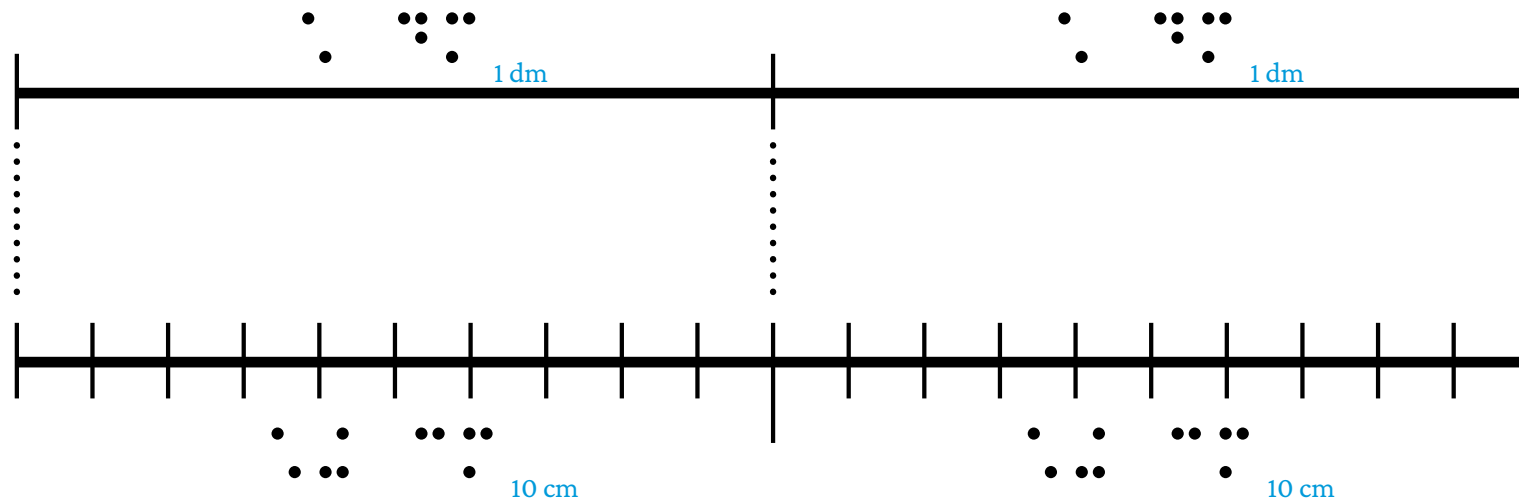


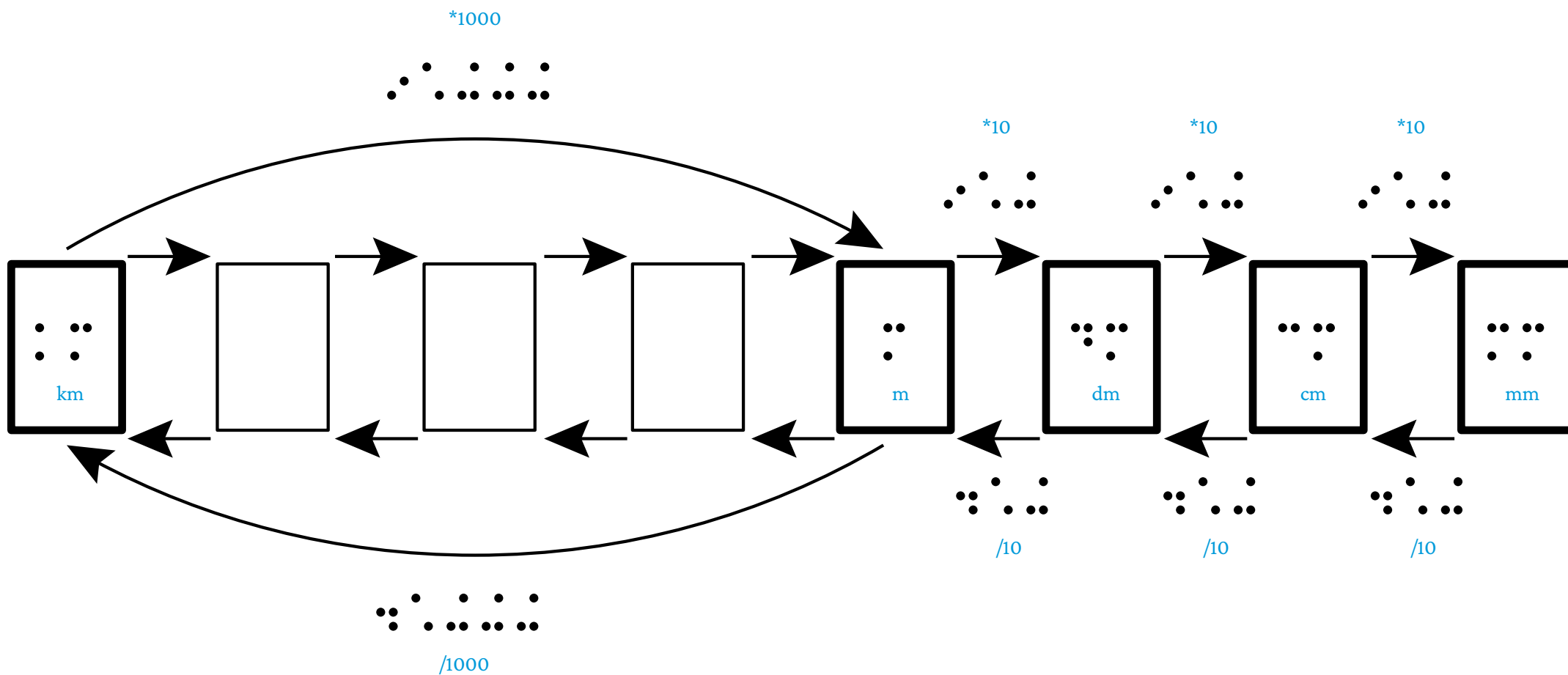
Zum Beispiel:

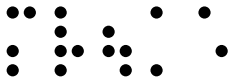
2 dm

$2 \text{ dm} = (2 \times 10) \text{ cm} = 20 \text{ cm}$

20 cm



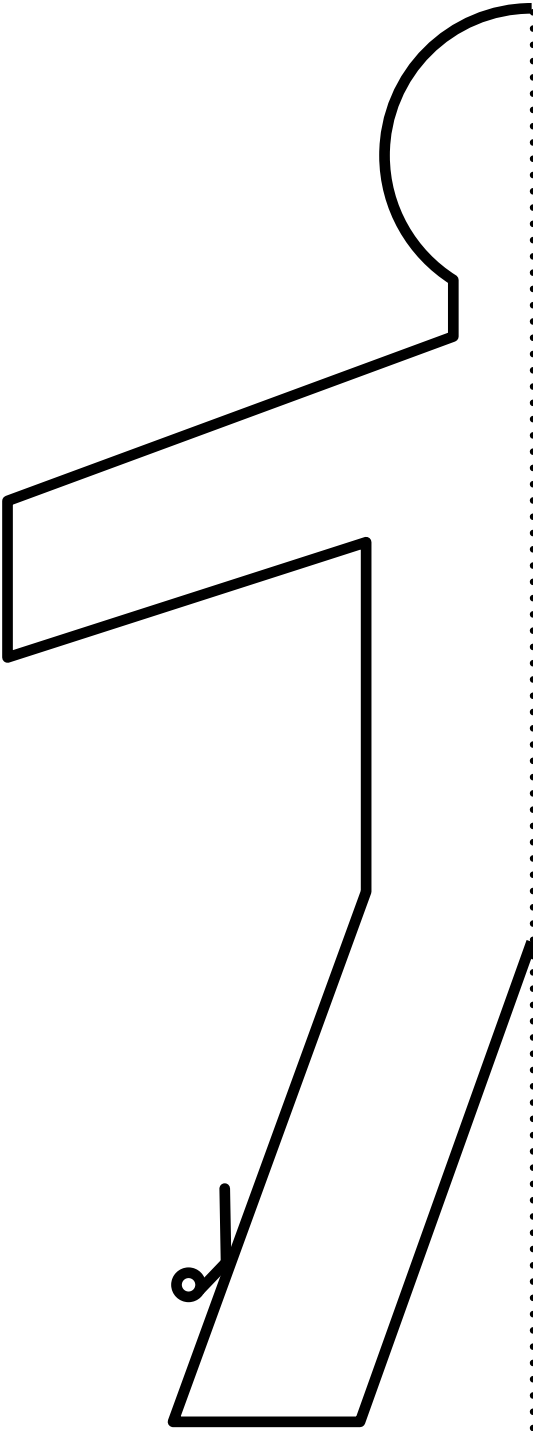




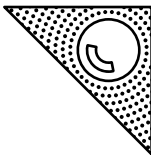
MVÜA1

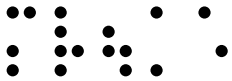


a)



S.105





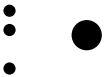
MVÜA1



b)



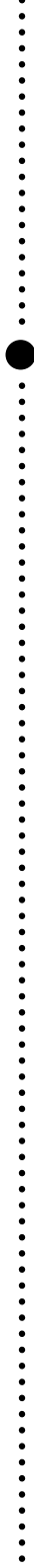
A



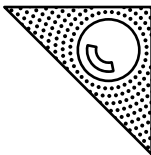
B

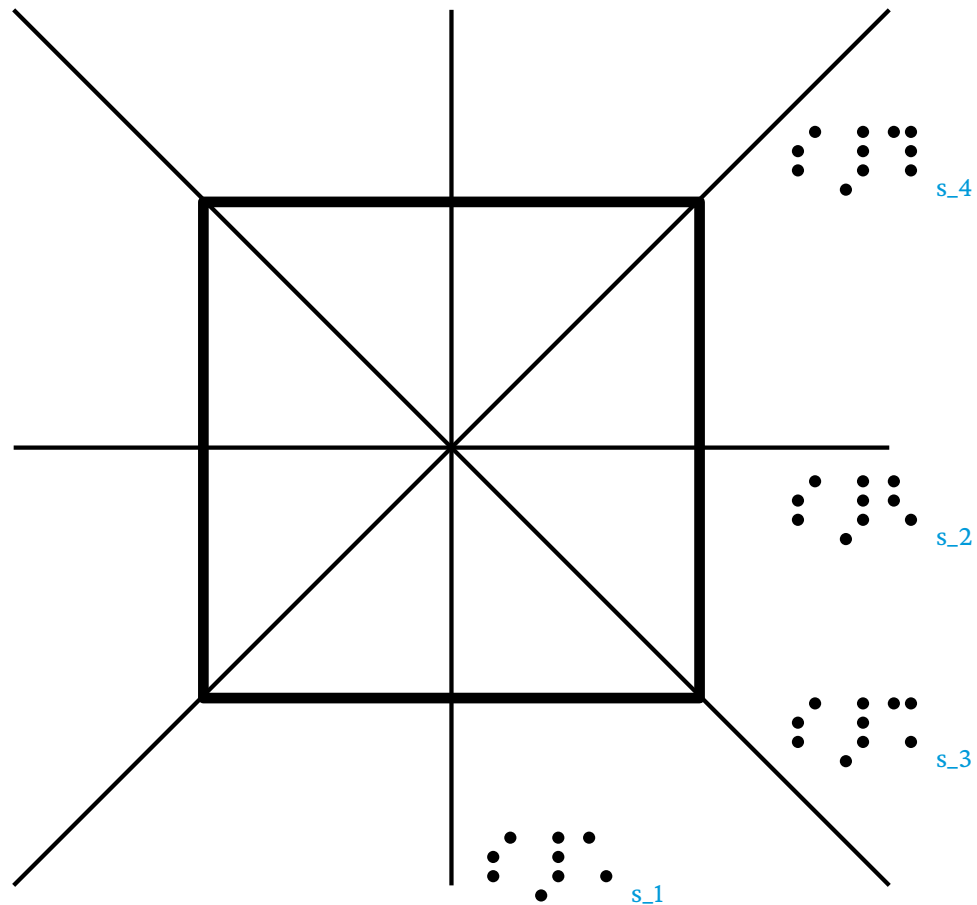
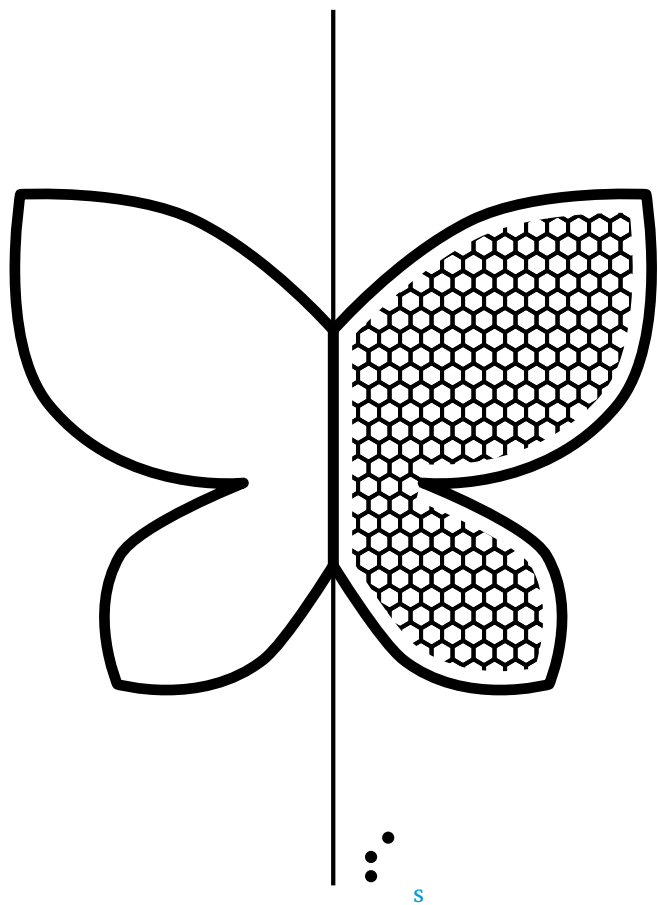


C

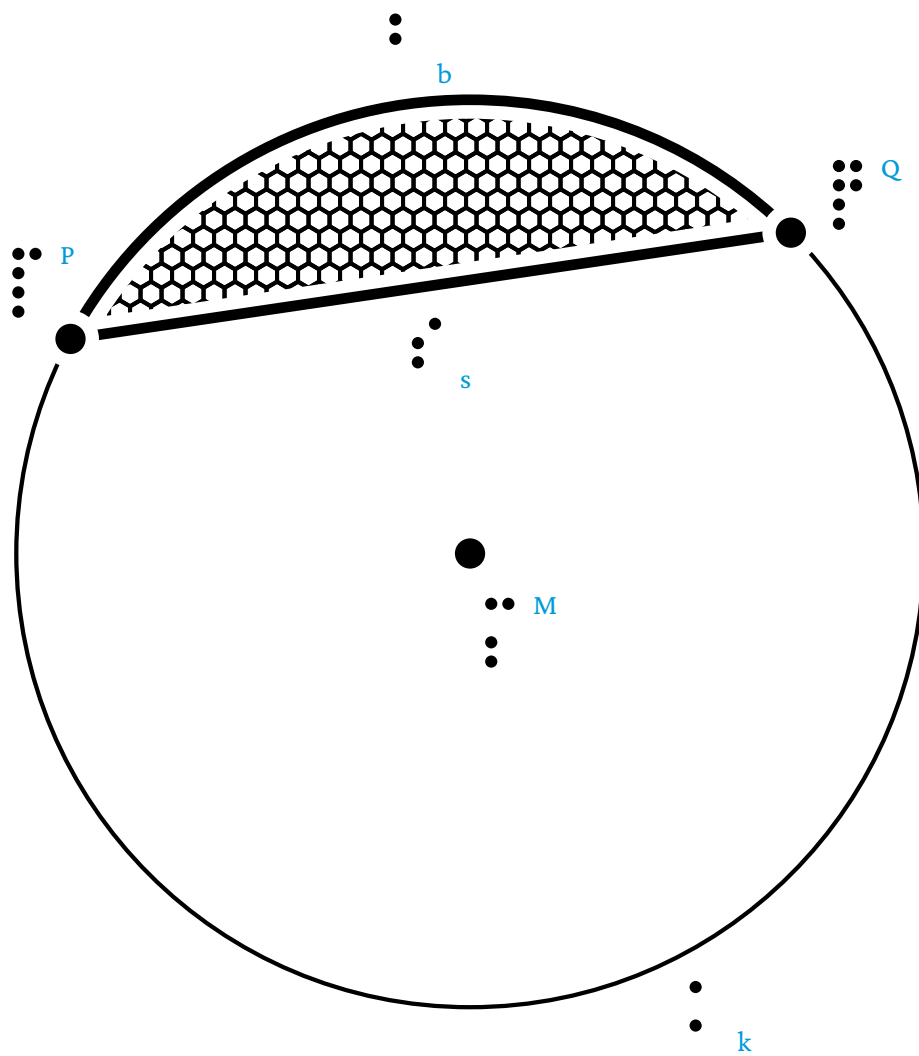


S.105

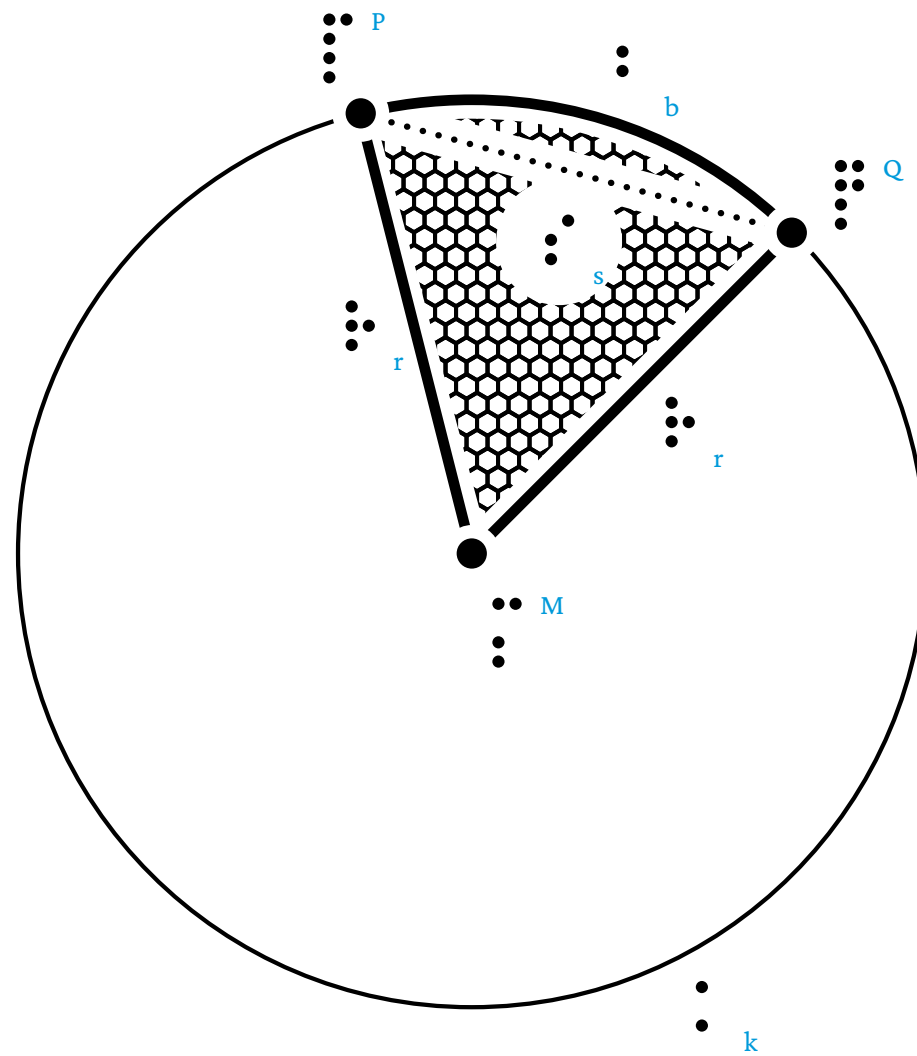




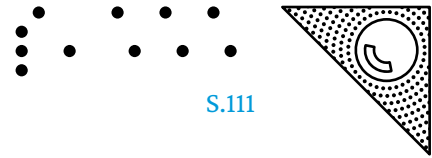
Segment



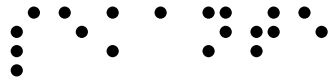
Sektor



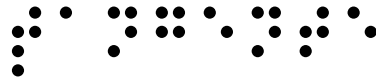
MVÜA1



S.111



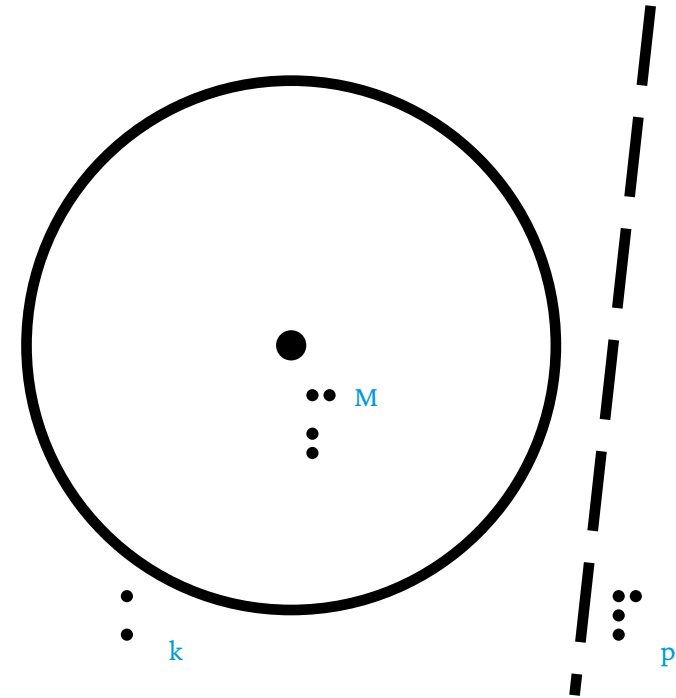
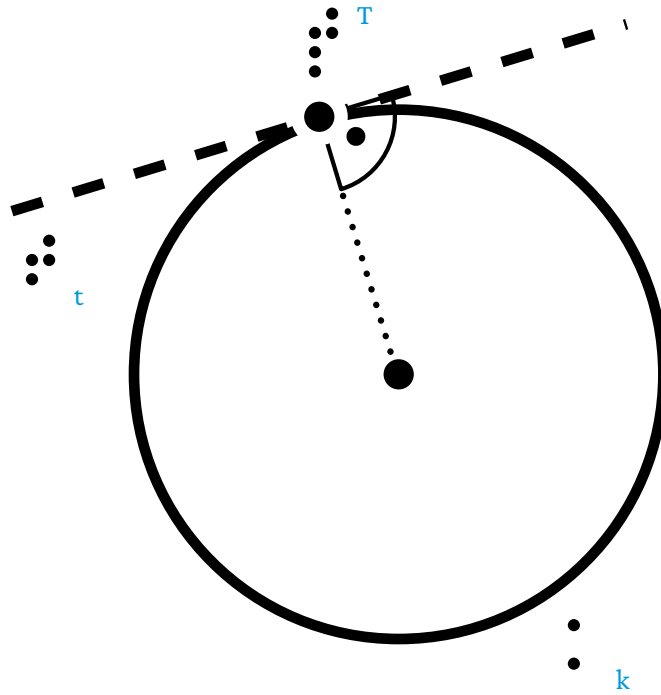
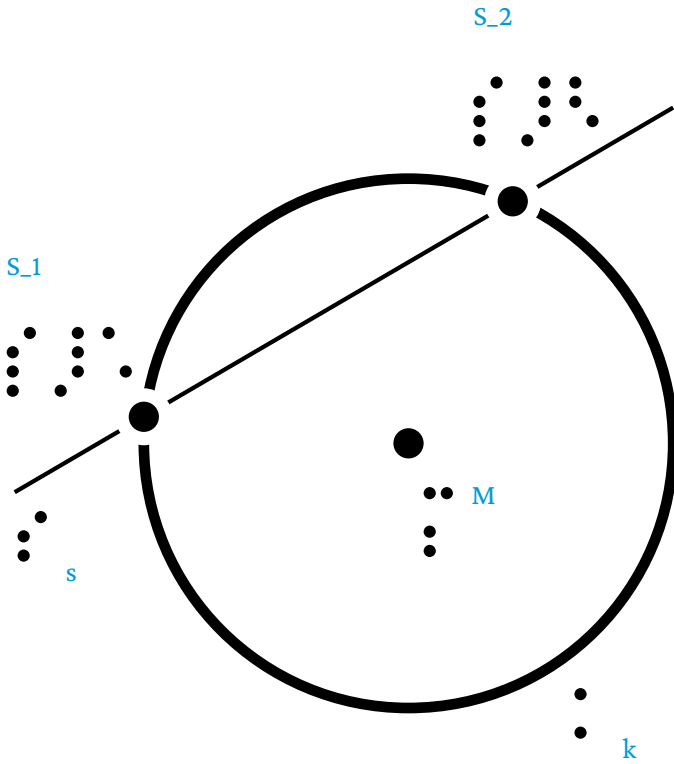
Sekante

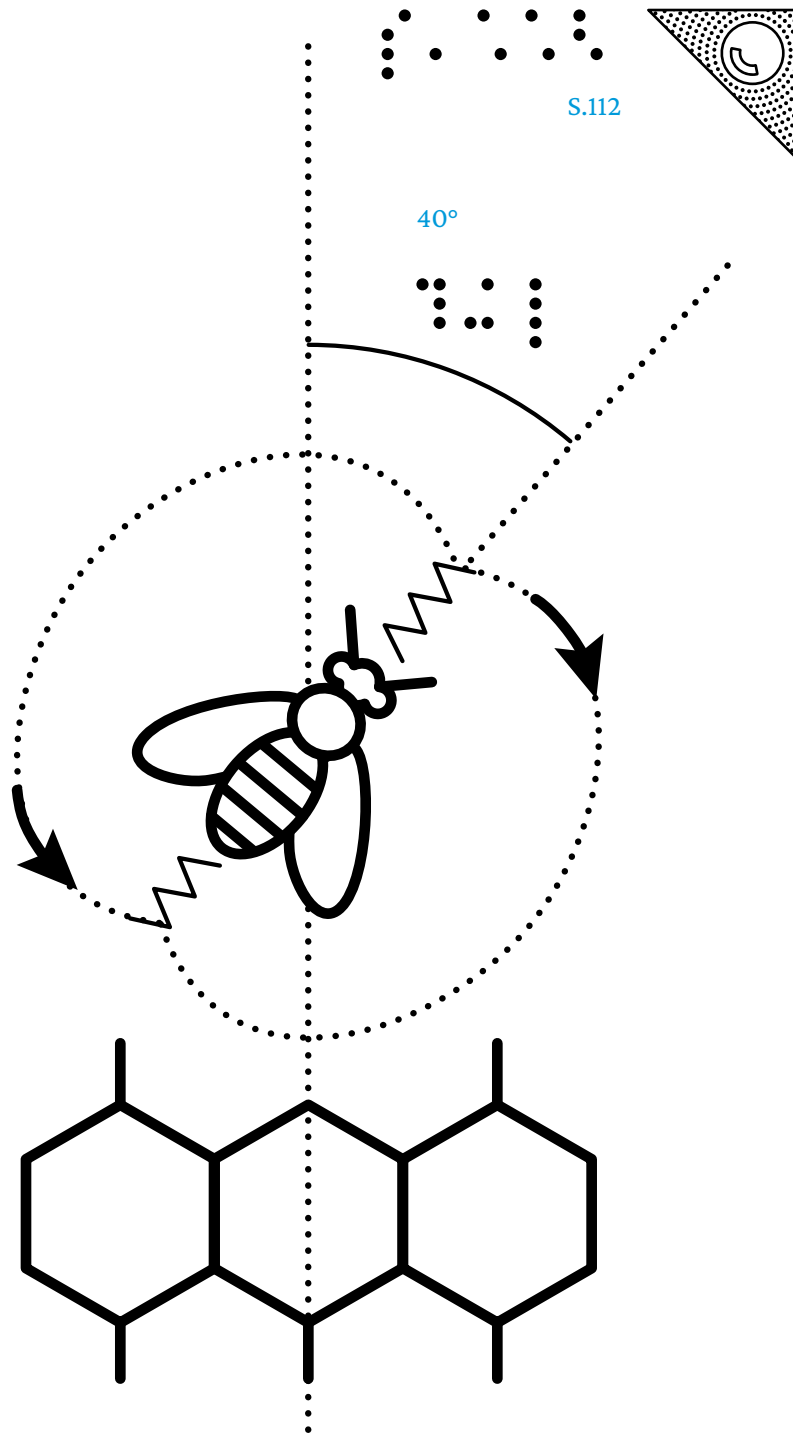
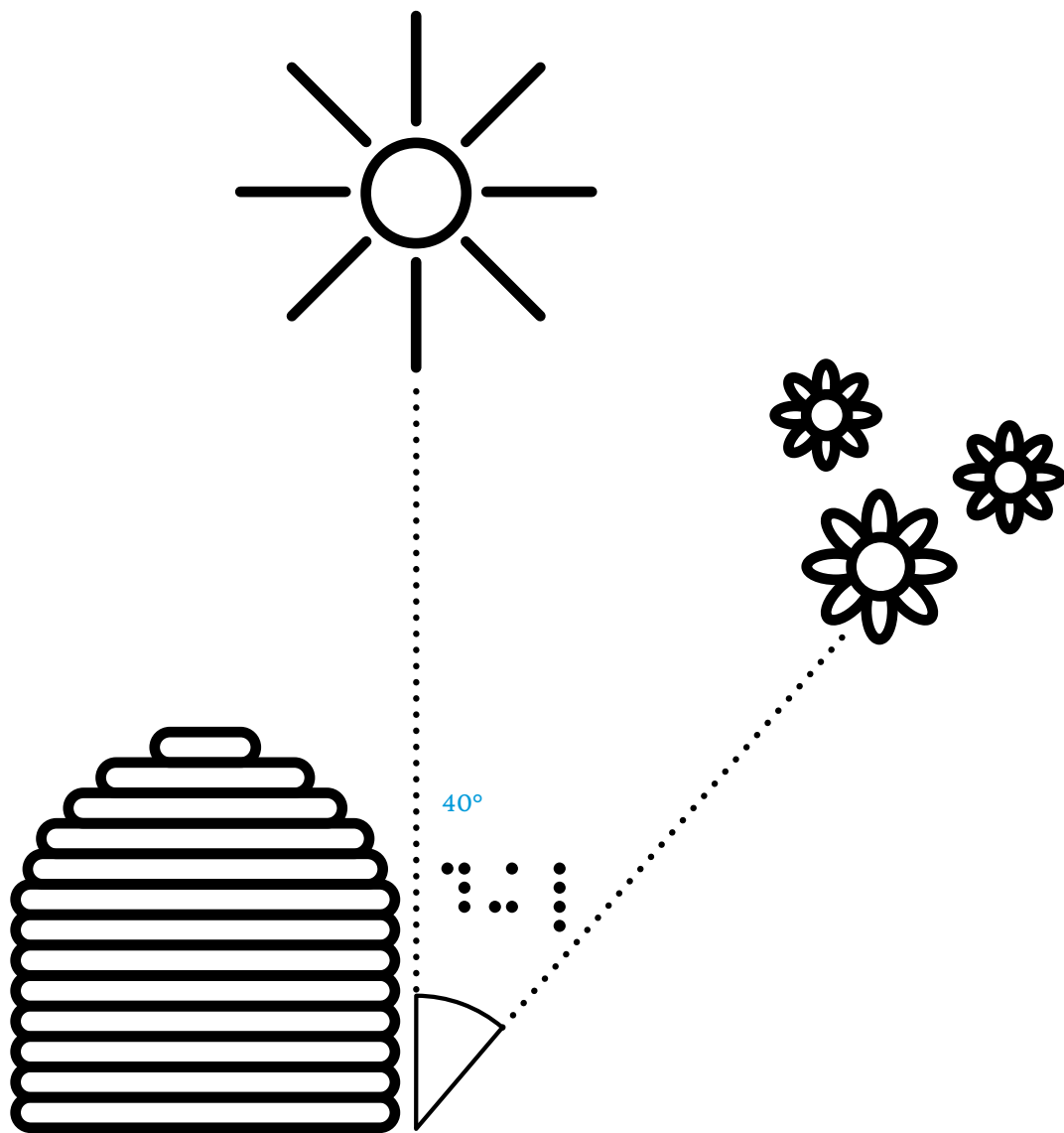


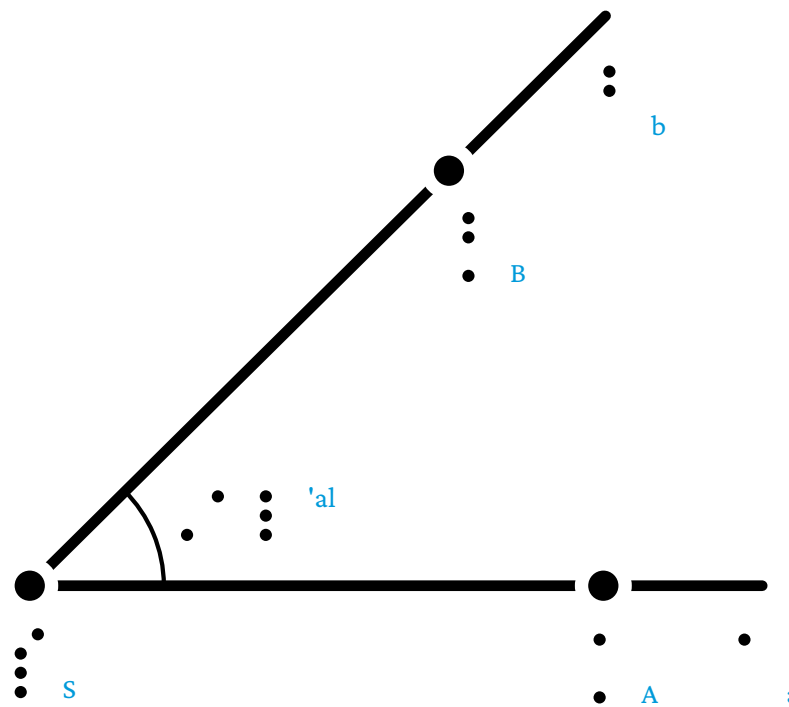
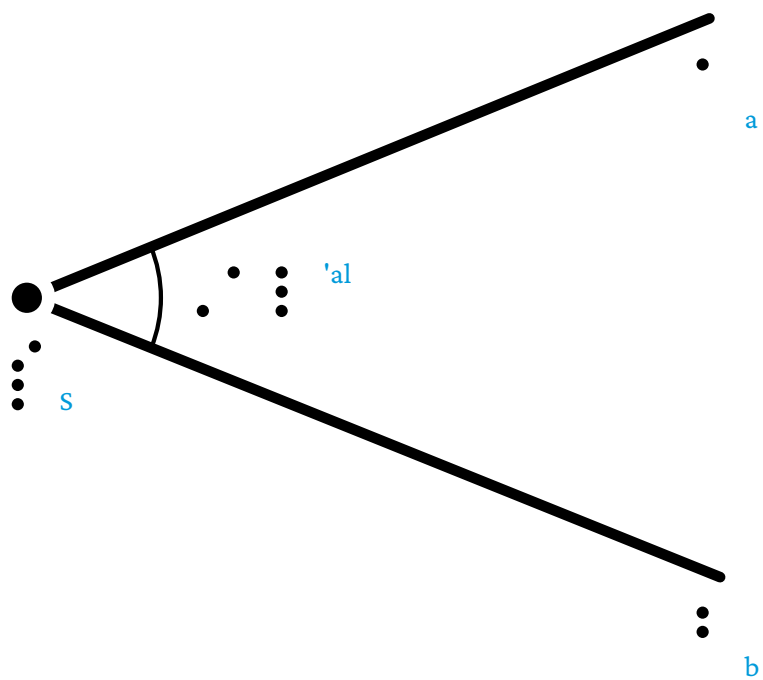
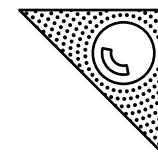
Tangente

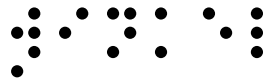
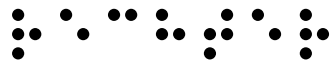


Passante

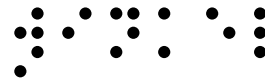




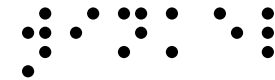
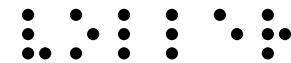




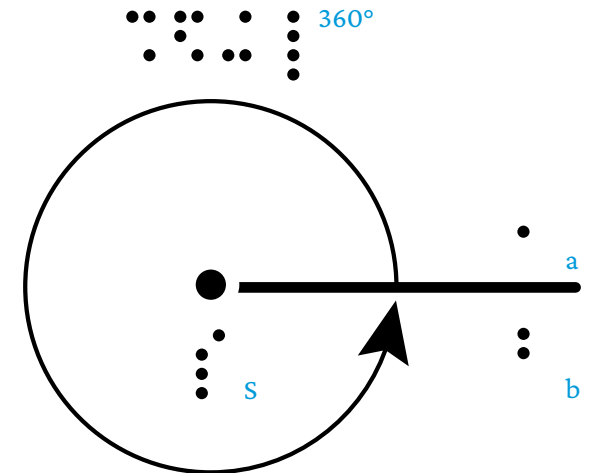
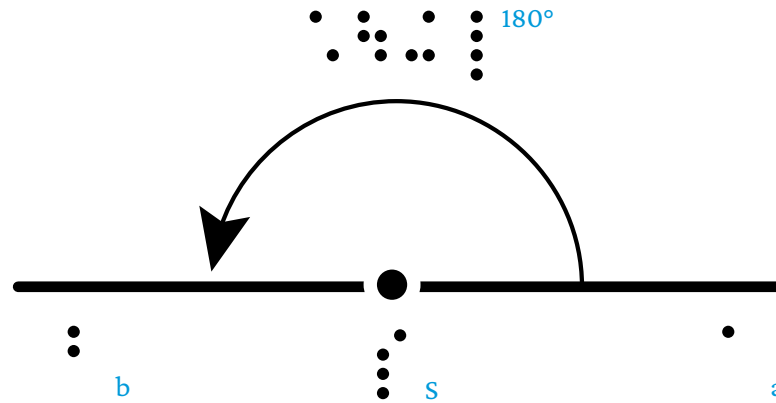
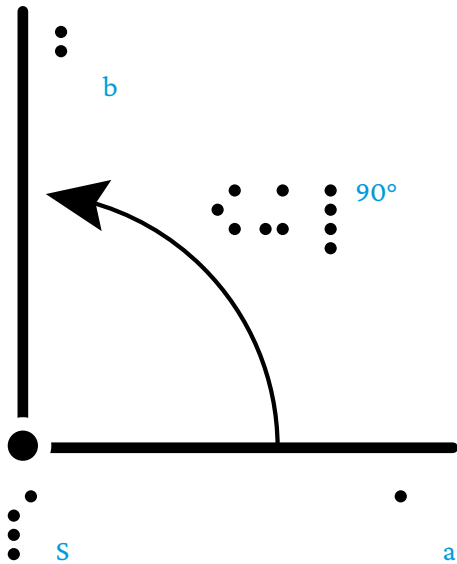
rechter Winkel

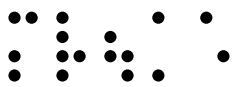


gestreckter Winkel

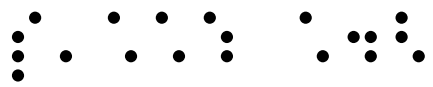


voller Winkel

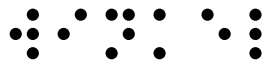
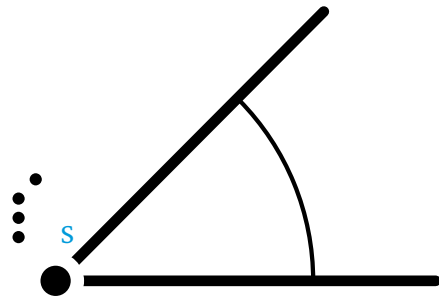
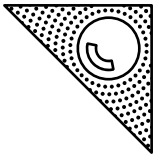




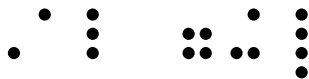
MVÜA1



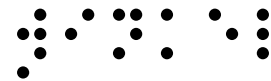
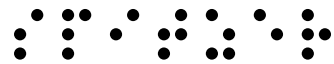
S.115 1/2



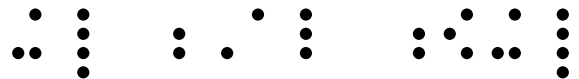
Nullwinkel



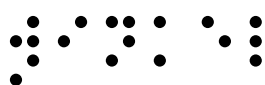
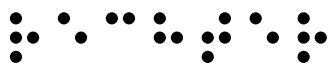
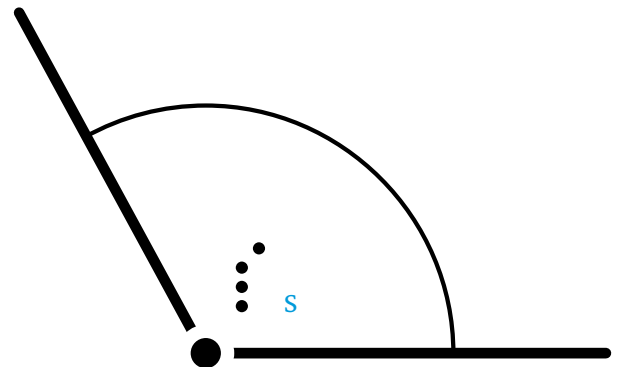
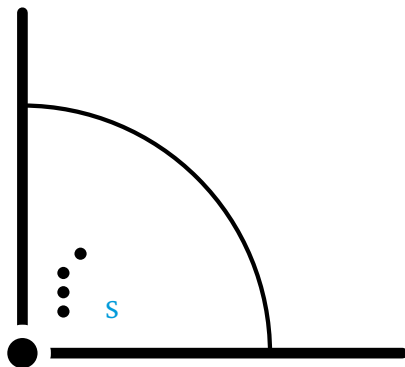
'al = 0°



spitzer Winkel



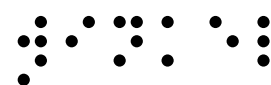
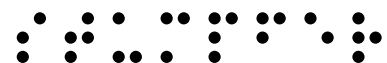
0° < 'al < 90°



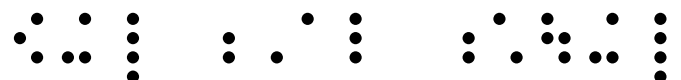
rechter Winkel



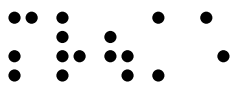
'al = 90°



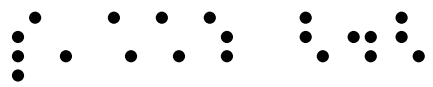
stumpfer Winkel



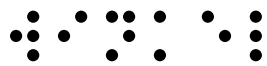
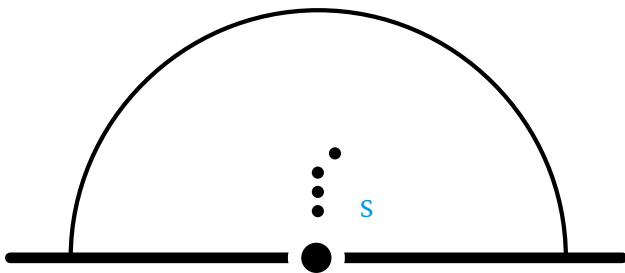
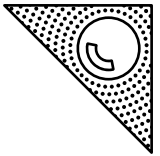
90° < 'al < 180°



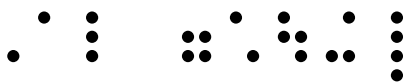
MVÜA1



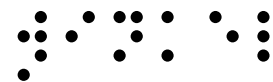
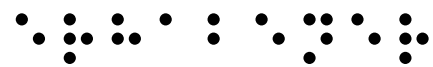
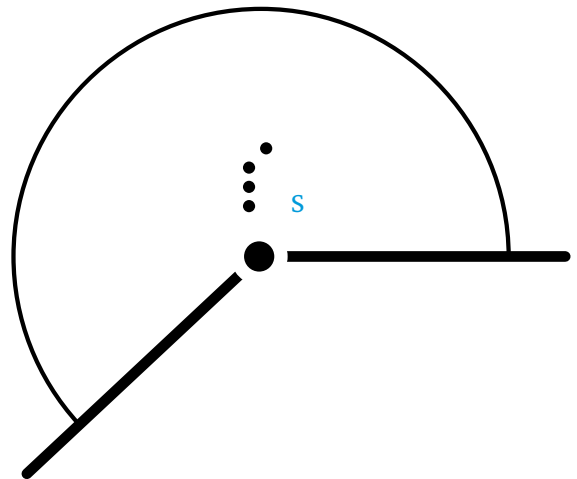
S.115 2/2



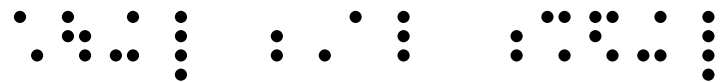
gestreckter Winkel



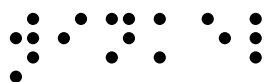
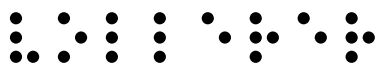
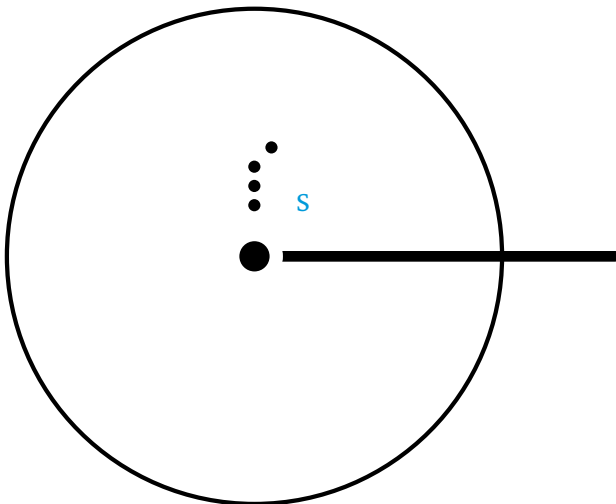
$\alpha = 180^\circ$



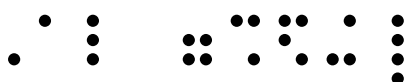
spitzer Winkel



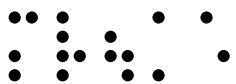
$180^\circ < \alpha < 360^\circ$



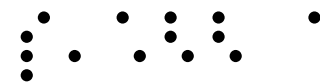
voller Winkel



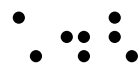
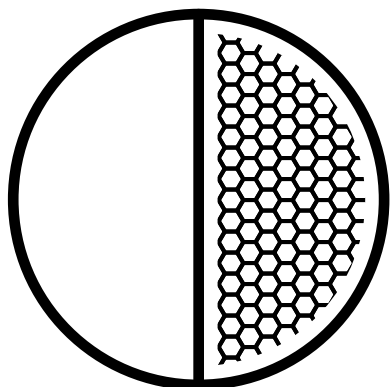
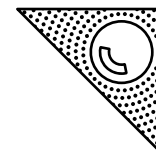
$\alpha = 360^\circ$



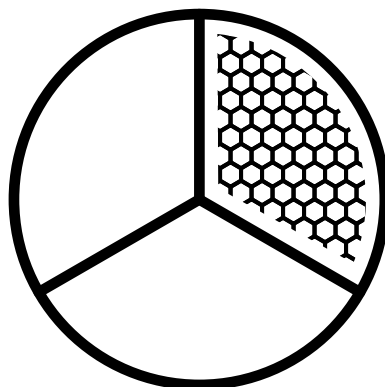
MVÜA1



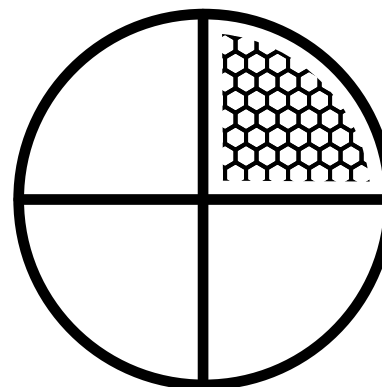
S.122 a



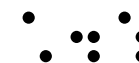
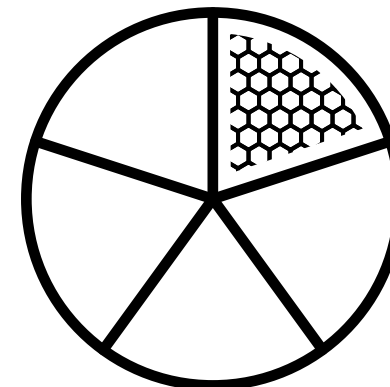
$\frac{1}{2}$



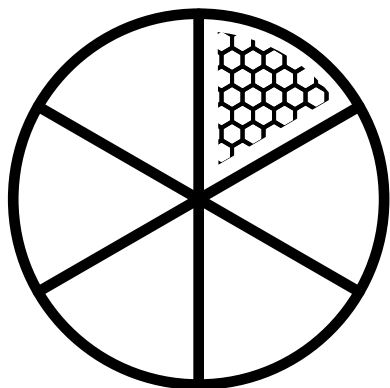
$\frac{1}{3}$



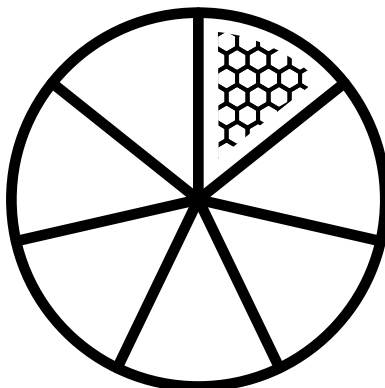
$\frac{1}{4}$



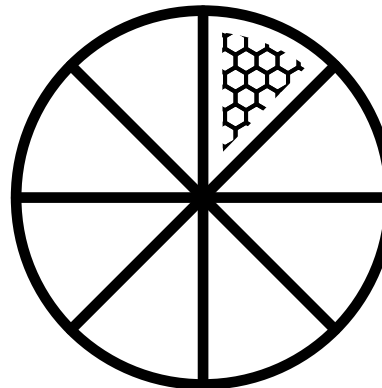
$\frac{1}{5}$



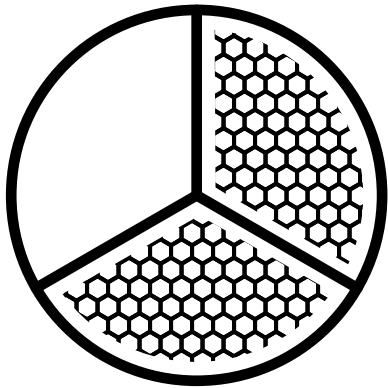
$\frac{1}{6}$



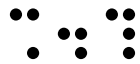
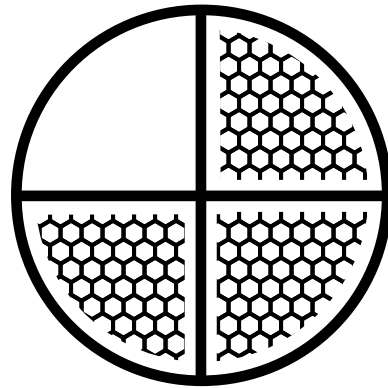
$\frac{1}{7}$



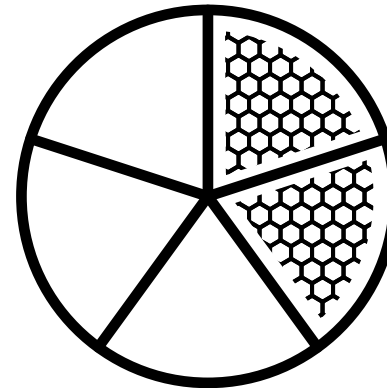
$\frac{1}{8}$



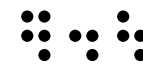
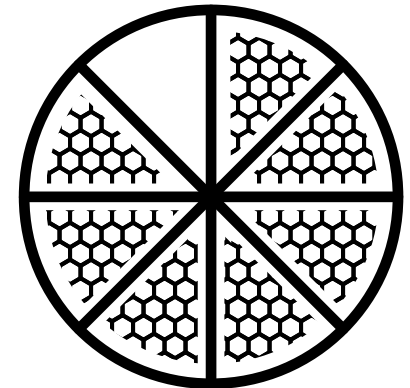
2/3



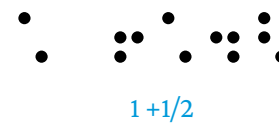
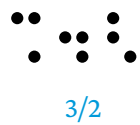
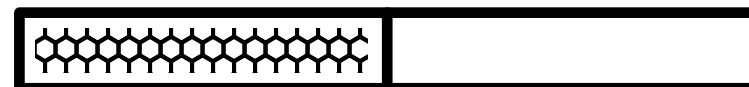
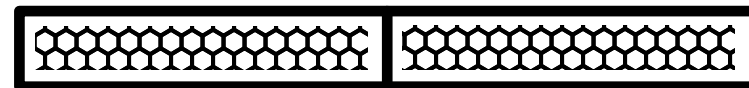
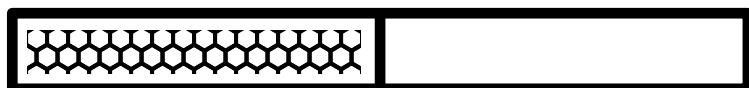
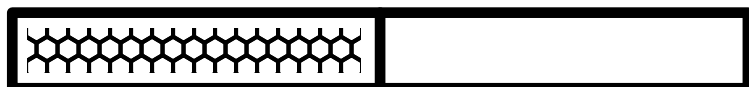
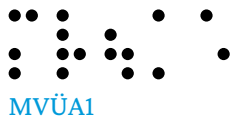
3/4

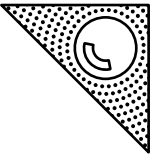


2/5



7/8





Dezimalzahl

oder

Bruch

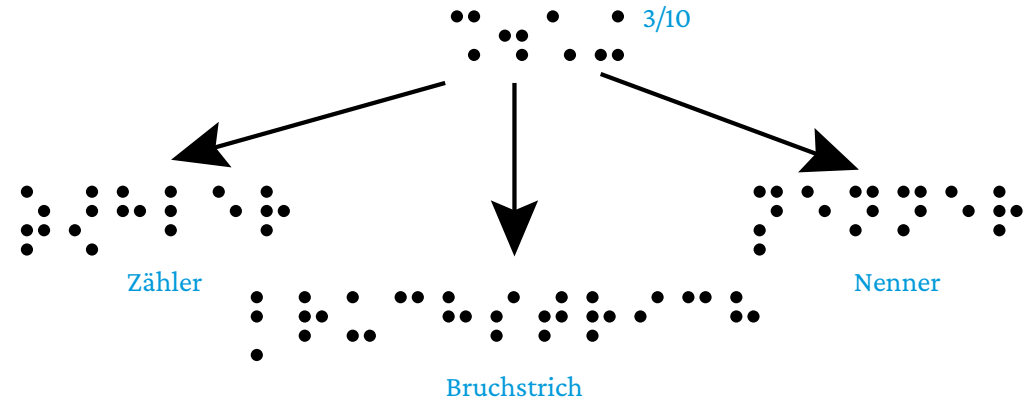
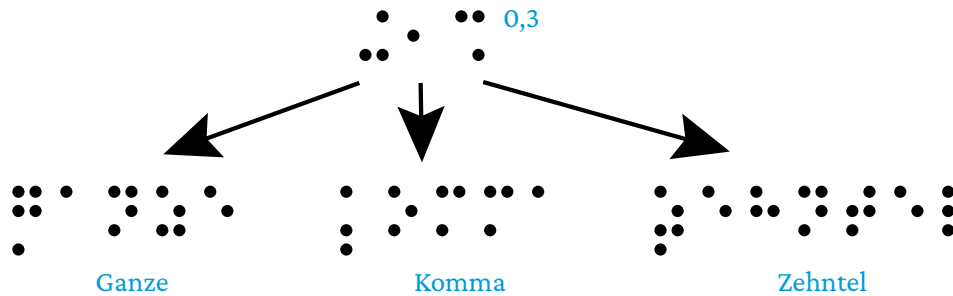
Dezimalzahl

oder

Bruch

0,3

3/10



Sprich:

Sprich:

null Komma drei

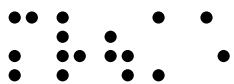
null Komma drei

null Komma 3 Zehntel

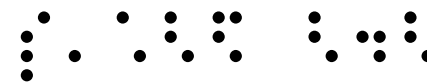
null Komma 3 Zehntel

0 Ganze 3 Zehntel

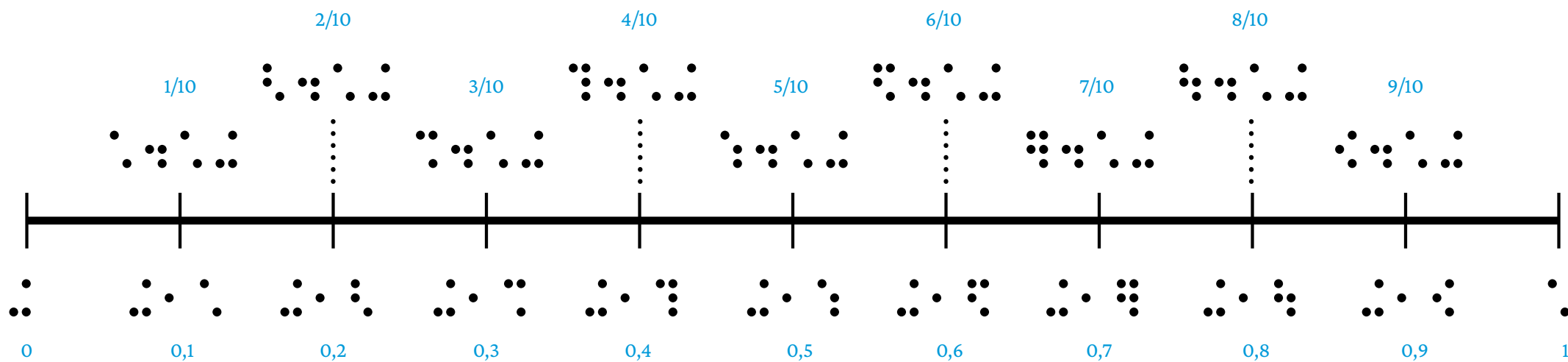
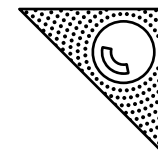
0 Ganze 3 Zehntel

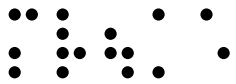


MVÜA1

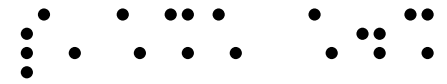


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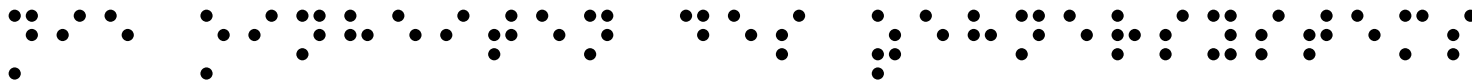
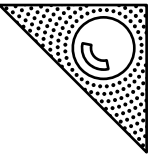




MVÜA1



S.1311/3

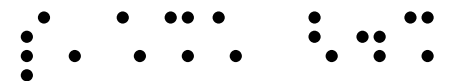


Die Einheiten des Zehnersystems

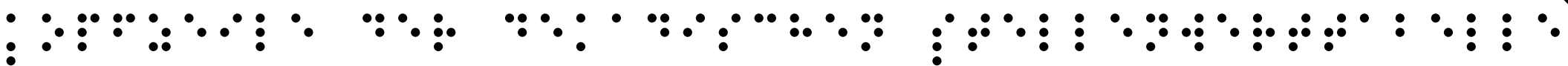
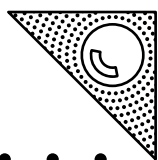
 H	 Z	 E	 z	 h	 t
 ..Hunderter	 Zehner	 Einer	 Zehntel	 Hundertstel	 Tausendstel
 dekadische Einheiten			 dezimale Einheiten		



MVÜA1



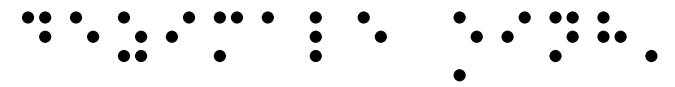
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Kopfzeile der dekadischen Stellenwerttabelle



dekadische Einheiten



dekadische Einh.

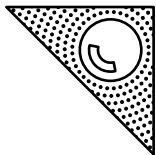
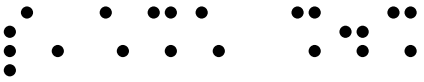
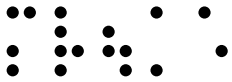
								,				
M	HT	ZT	T	H	Z	E			z	h	t	..

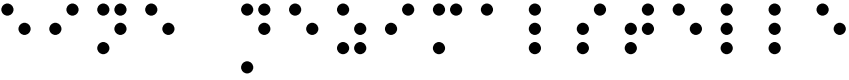
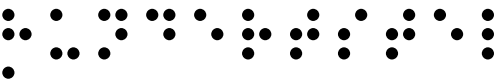
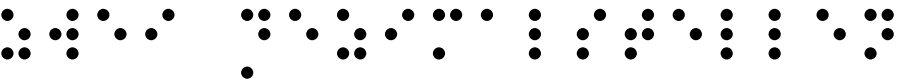
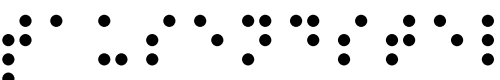
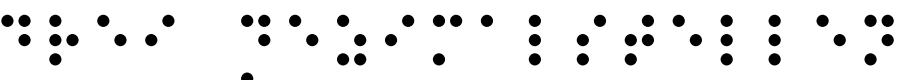
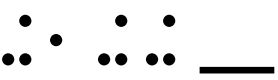
beim Fortschreiten von rechts nach links: jede Einheit ist das Zehnfache der vorgehenden Einheit.

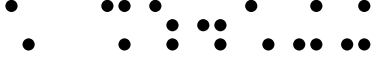


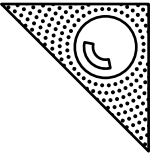
beim Fortschreiten von links nach rechts: jede Einheit ist der zehnte Teil der vorgehenden Einheit.



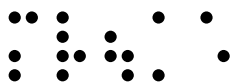


 Zehntel	 eine Dezimalstelle	 0, _____
 Hundertstel	 zwei Dezimalstellen	 0,0_ _____
 Tausendstel	 drei Dezimalstellen	 0,00_ _____

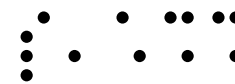
 T	 H	 Z	 E	 z	 h	 t	 Dz	 Bruch	 Sprechweise
			 1	 3	 5		 1,35	 135/100	
			 0	 7			 0,7	 7/10	
			 0	 0	 2	 8	 0,028	 28/1000	



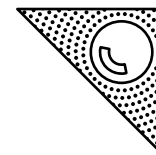
Z	E	z	h	t	Dez.	Bruch	Sprechweise
	1	3	5		1,35	135/100	1 Ganzes 35 Hundertstel oder eins Komma drei fünf
	0	7			0,7	7/10	0 Ganze 7 Zehntel oder null Komma sieben
	0	0	2	8	0,028	28/1000	0 Ganze 28 Tausendstel oder null Komma null zwei acht



MVÜA1



S.133



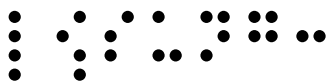
2



2,5



3



Lösung:



2



2,5

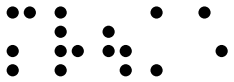


3

2,05

2,25

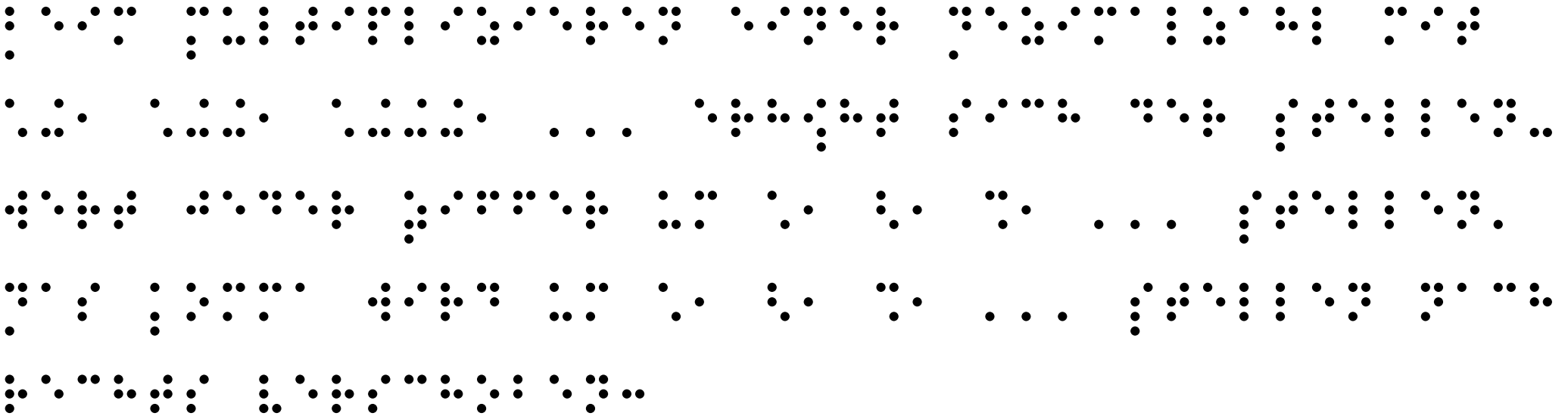
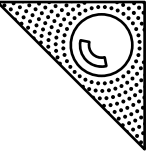
2,52



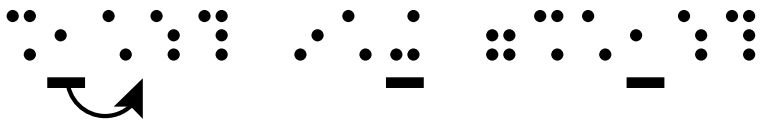
MVÜA1



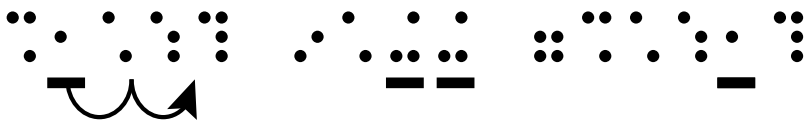
S.134



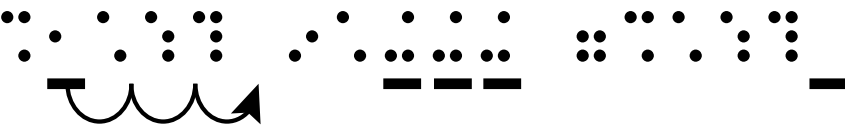
Beim Multiplizieren einer Dezimalzahl mit 10, 100, 1000, ... erhöht sich der Stellenwert jeder Ziffer um 1, 2, 3, ... Stellen. Das Komma wird um 1, 2, 3, ... Stellen nach rechts verschoben:



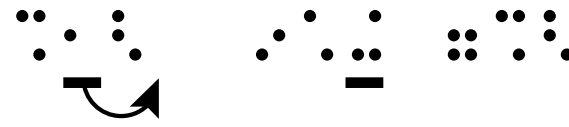
$$3,154 \cdot 10 = 31,54$$



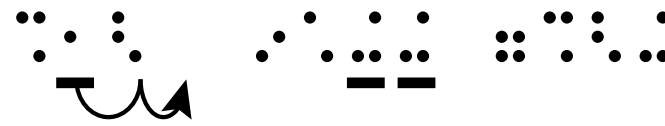
$$3,154 \cdot 100 = 315,4$$



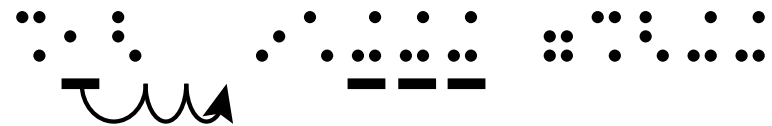
$$3,154 \cdot 1000 = 3154$$



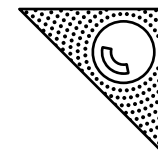
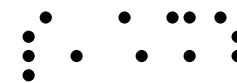
$$3,2 \cdot 10 = 32$$



$$3,2 \cdot 100 = 320$$



$$3,2 \cdot 1000 = 3200$$



Beim Dividieren einer Dezimalzahl durch 10, 100, 1000, ... verringert sich der Stellenwert jeder Ziffer um 1, 2, 3, ... Stellen. Das Komma wird um 1, 2, 3, ... Stellen nach links verschoben:

342,7 / 10 = 34,27

$$342,7 / 10 = 34,27$$

342,7 / 100 = 3,427

$$342,7 / 100 = 3,427$$

342,7 / 1000 = 0,3427

$$342,7 / 1000 = 0,3427$$

300 / 10 = 30

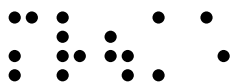
$$300 / 10 = 30$$

300 / 100 = 3

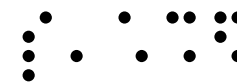
$$300 / 100 = 3$$

300 / 1000 = 0,3

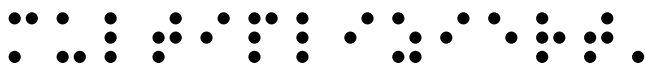
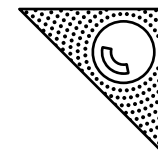
$$300 / 1000 = 0,3$$



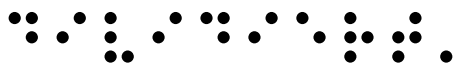
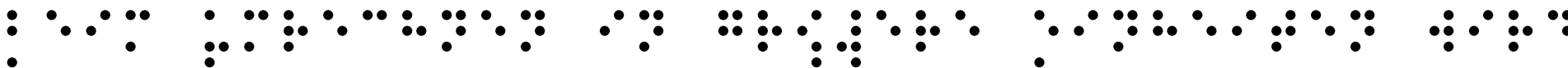
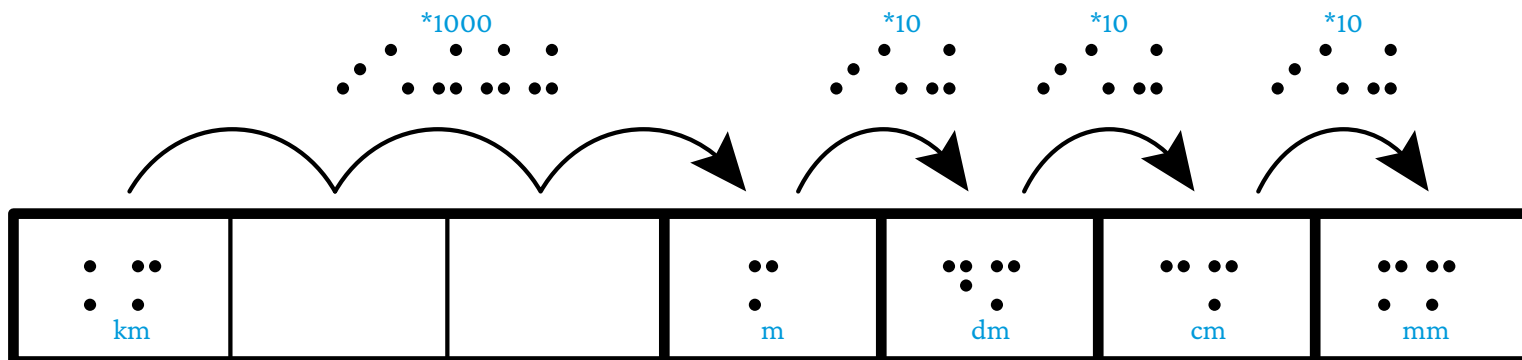
MVÜA1



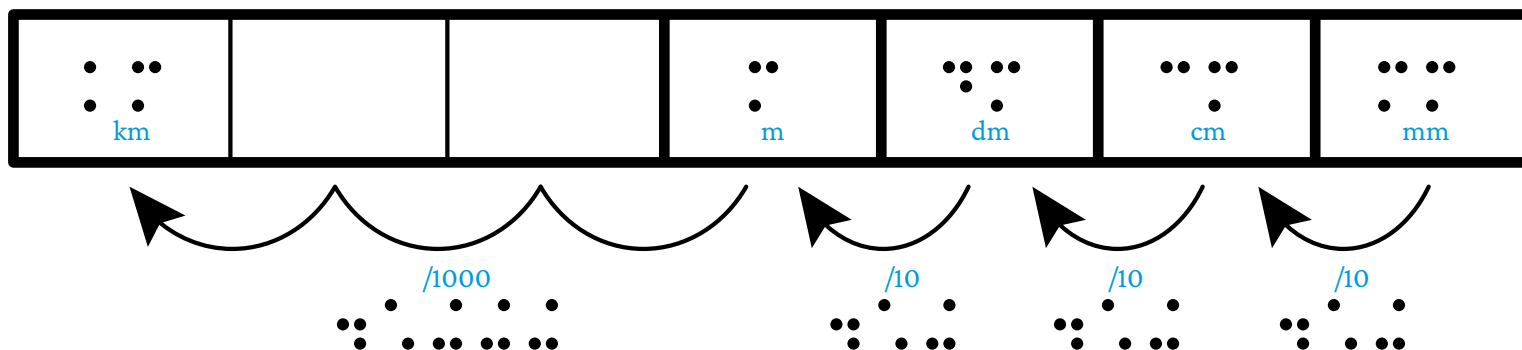
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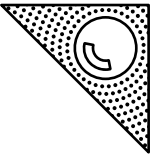


Beim Umrechnen in kleinere Einheiten wird multipliziert.

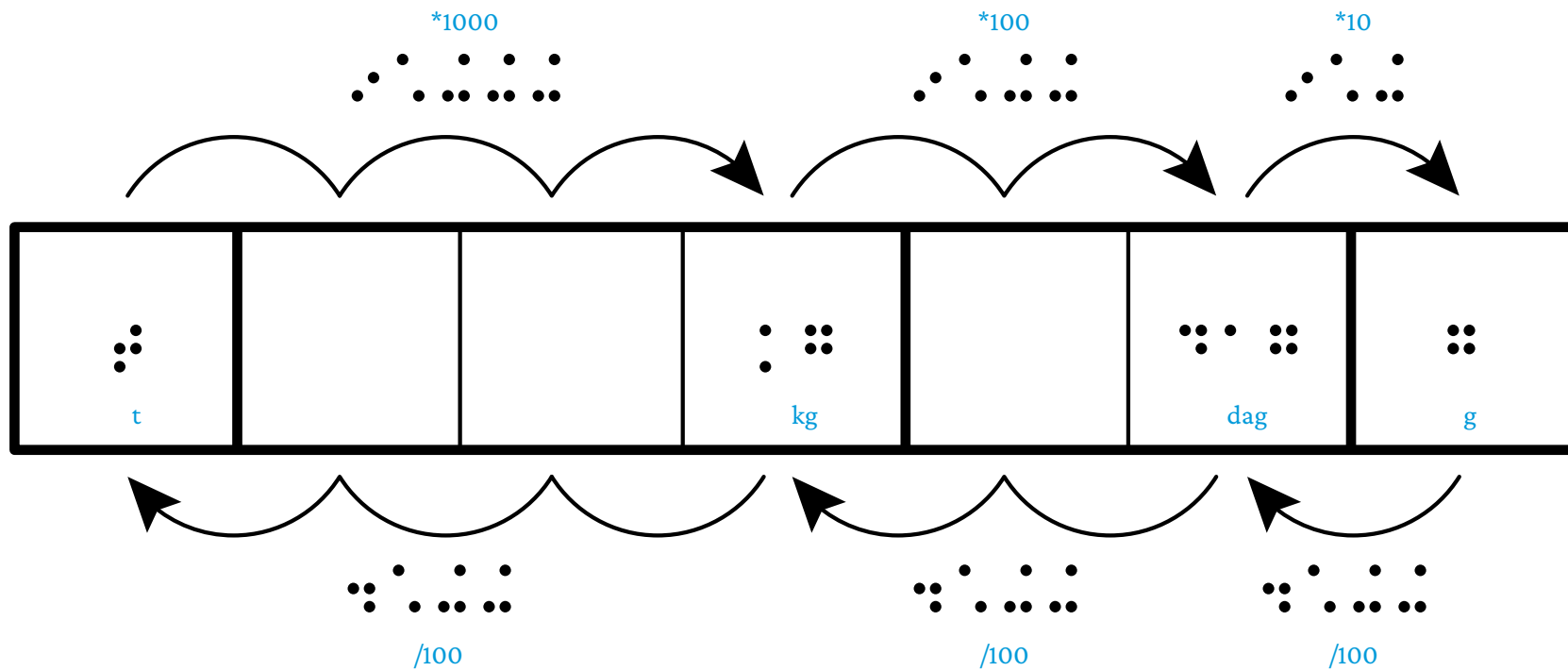


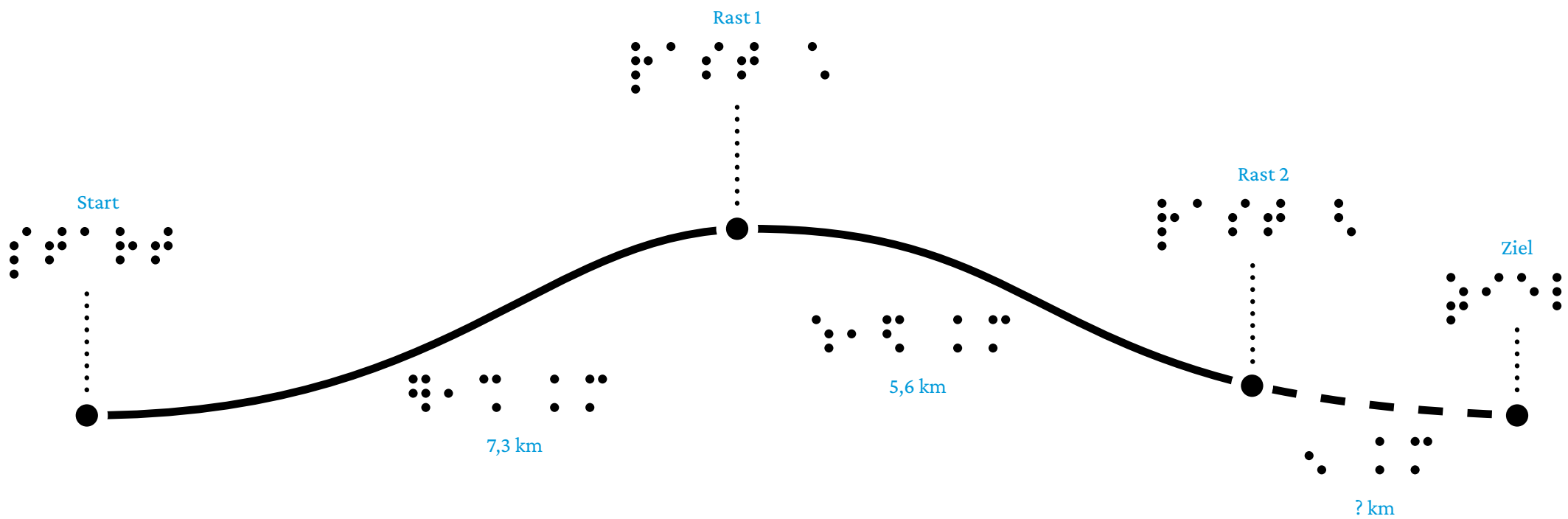
Beim Umrechnen in größere Einheiten wird dividiert.

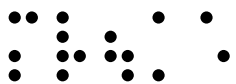




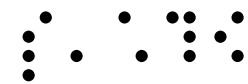
Masse - Umrechnungszahlen



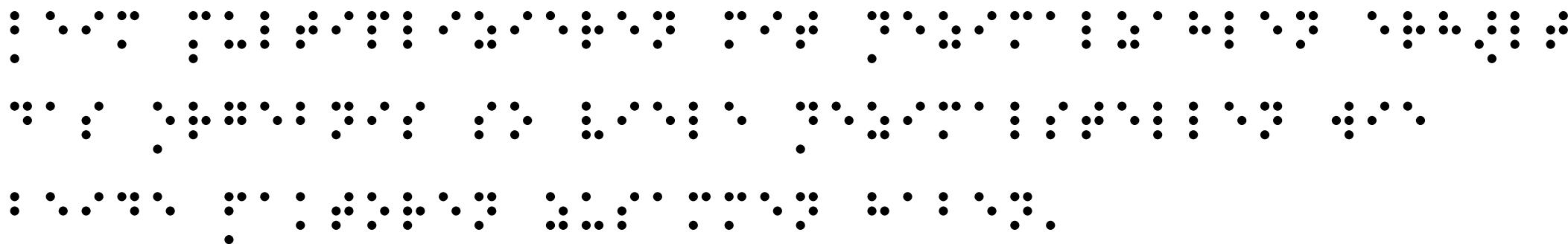
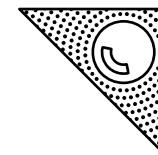




MVÜA1

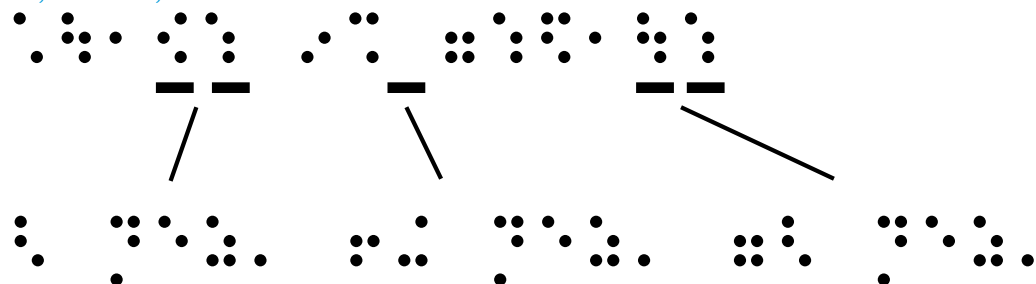


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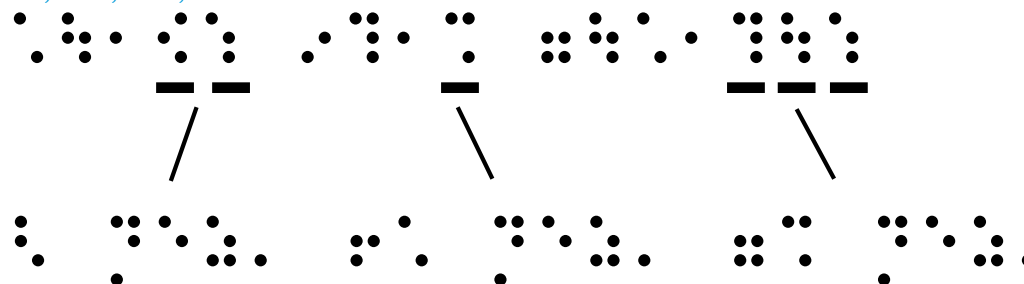
Beim Multiplizieren mit Dezimalzahlen erhält das Ergebnis so viele Dezimalstellen wie beide Faktoren zusammen haben.

$$18,95 \cdot 3 = 56,85$$



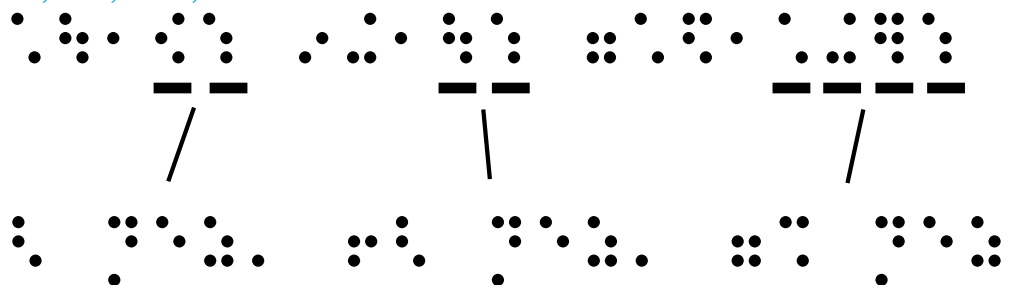
2 Dez. + 0 Dez. = 2 Dez.

$$18,95 \cdot 4,3 = 81,485$$

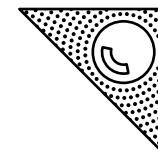


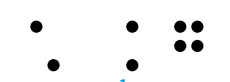
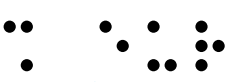
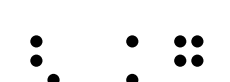
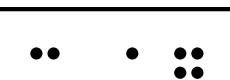
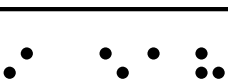
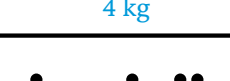
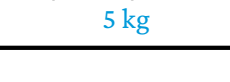
2 Dez. + 1 Dez. = 3 Dez.

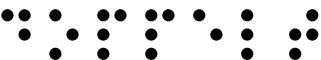
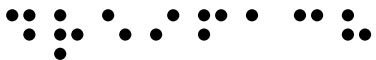
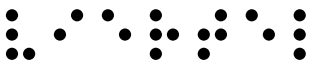
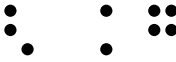
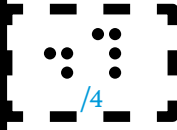
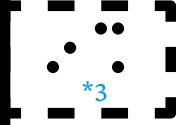
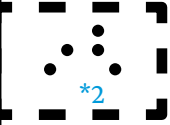
$$18,95 \cdot 0,85 = 16,1075$$

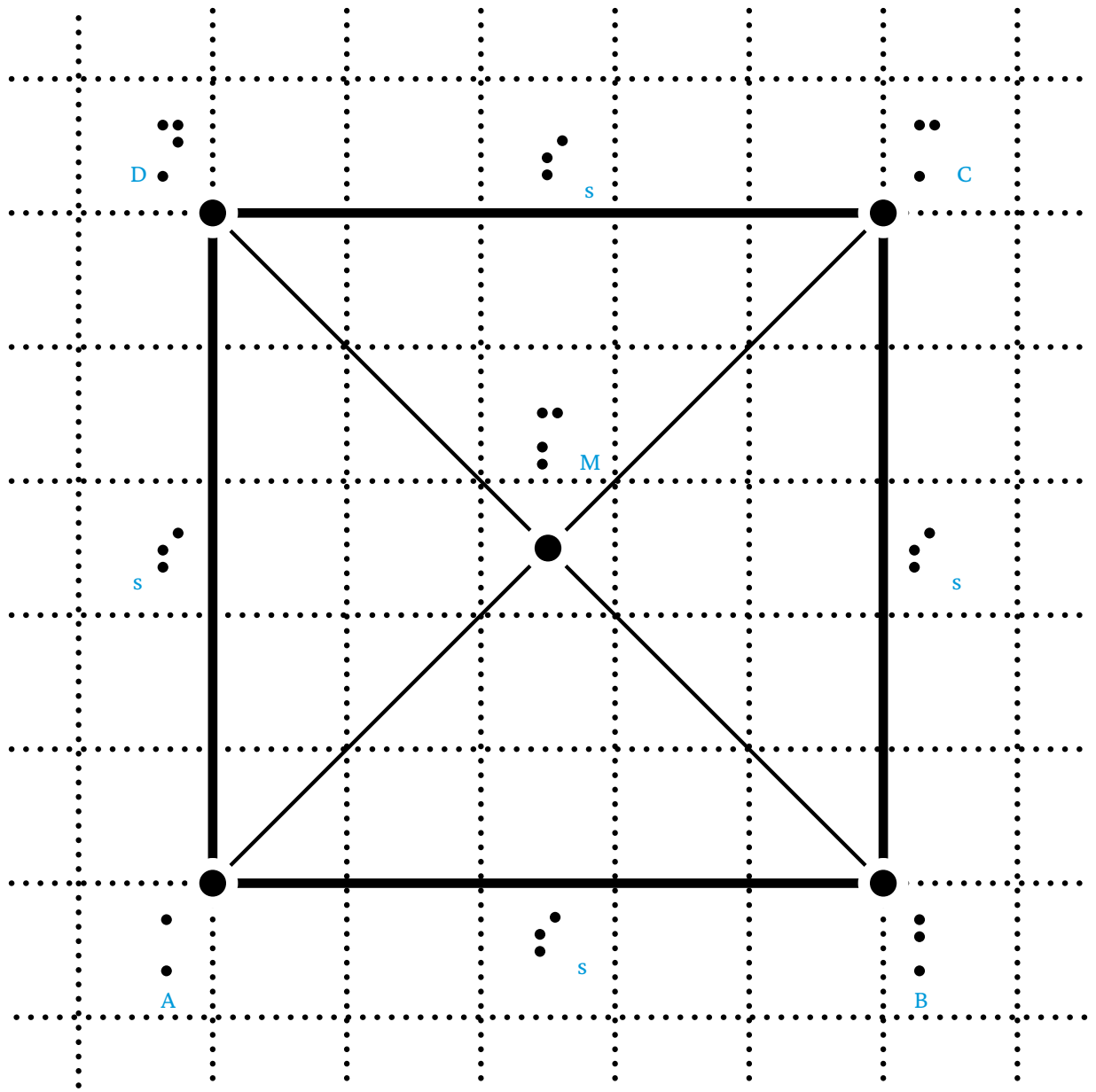


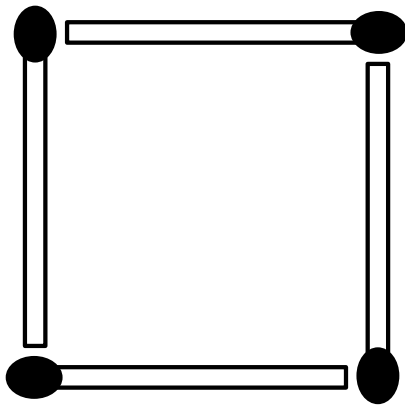
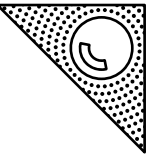
2 Dez. + 2 Dez. = 4 Dez.

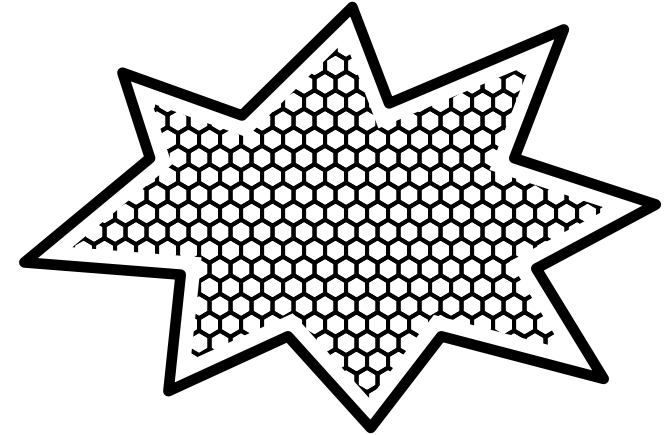
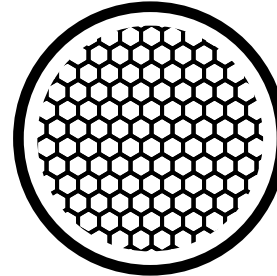
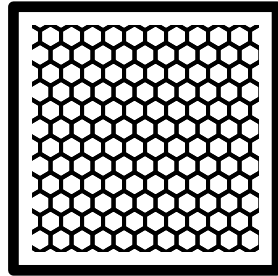
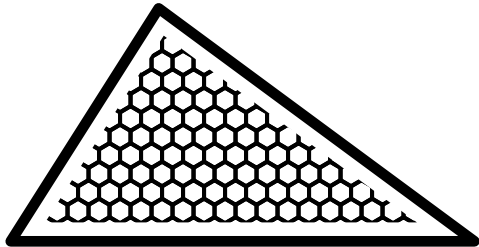


 Menge	 Preis
 1 kg	 3 EUR
 2 kg	 6 EUR
 3 kg	 9 EUR
 4 kg	 12 EUR
 5 kg	 15 EUR
 6 kg	 18 EUR
 7 kg	 21 EUR
 8 kg	 24 EUR

 doppelt	 dreifach	 Viertel
		 1 kg
	 2 kg	 6 E
		 /4
 4 kg	 12 E	 *3
		 4 kg
		 12 E
 *2		
		 6 kg
 8 kg		



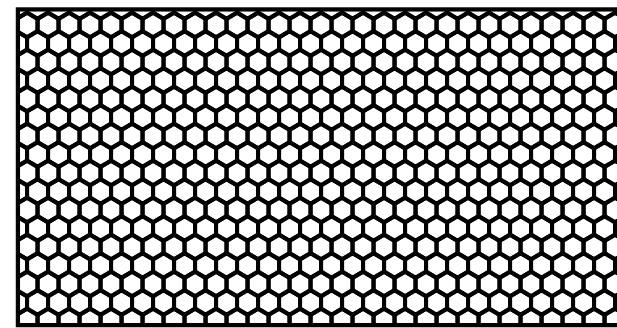


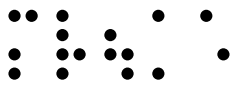


Umfang

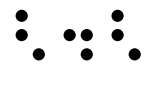
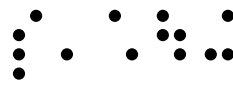


Fläche

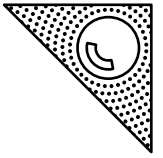




MVÜA1



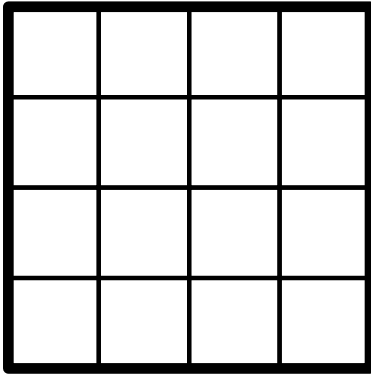
S.180 2/2



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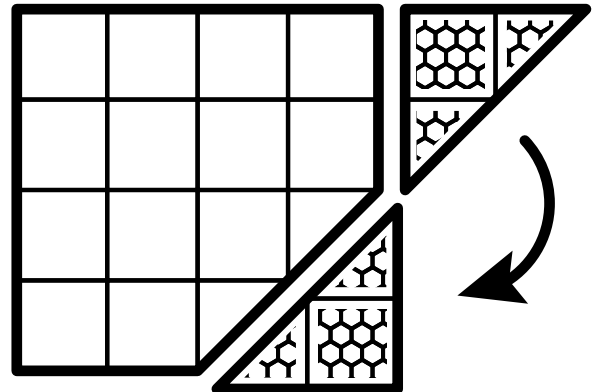
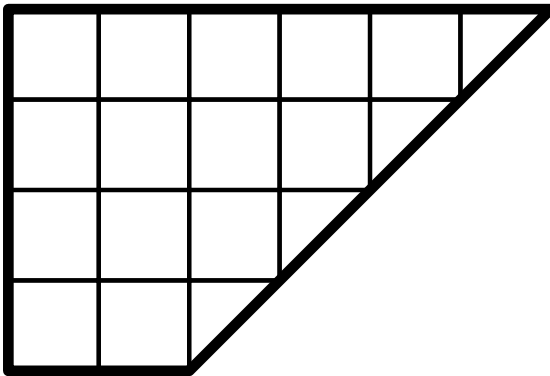
A



•

•

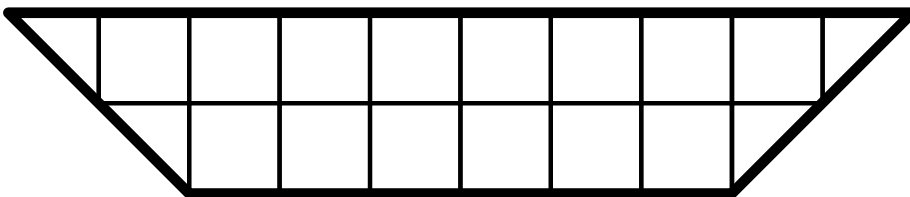
B

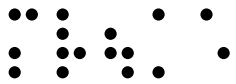


••

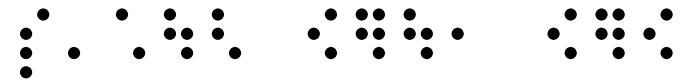
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C

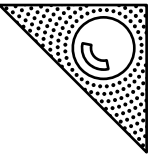




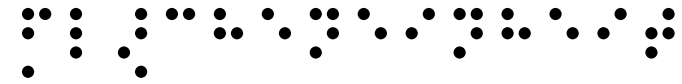
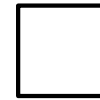
MVÜA1



S.182 978, 979



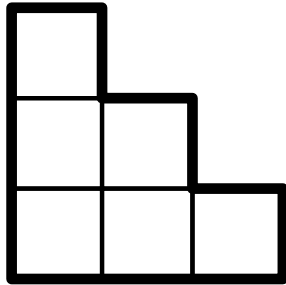
Streckeneinheit



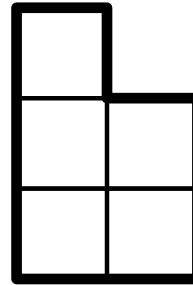
Flächeneinheit



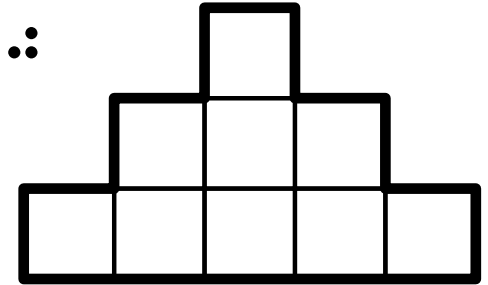
a)



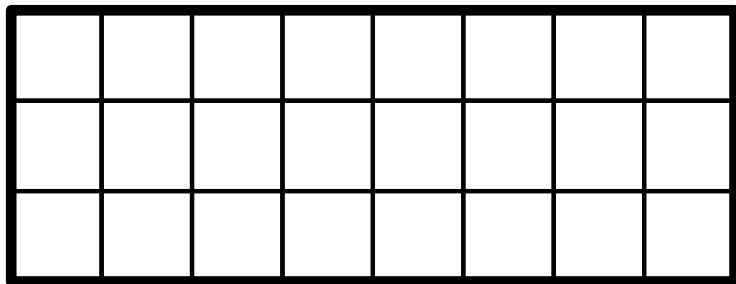
b)



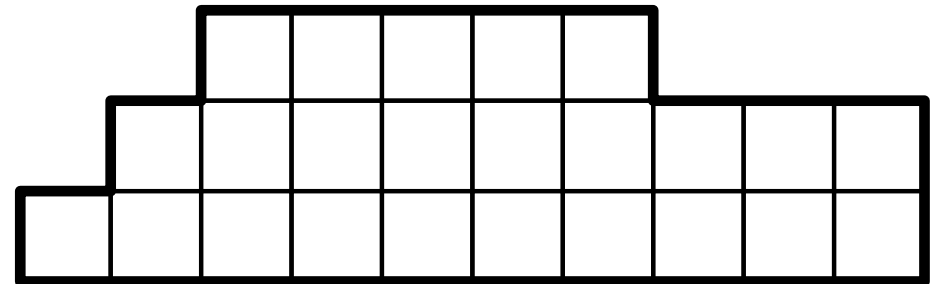
c)

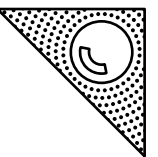
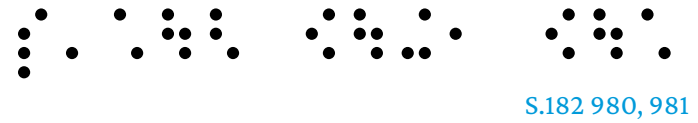
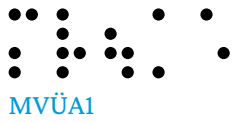


a)

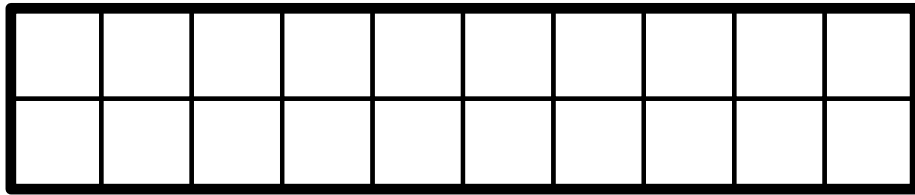


b)

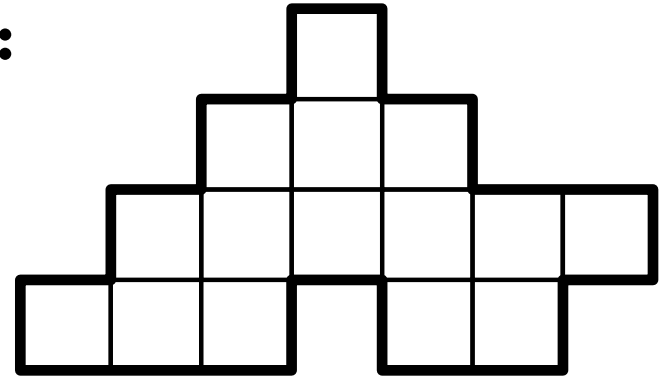




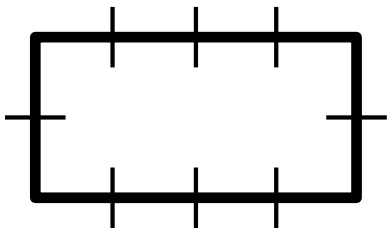
a)



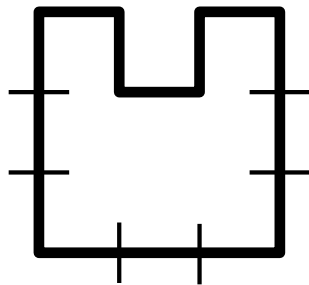
b)



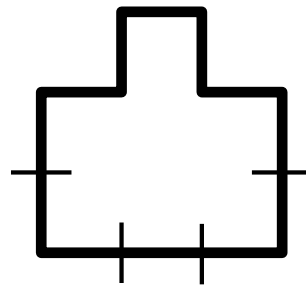
a)



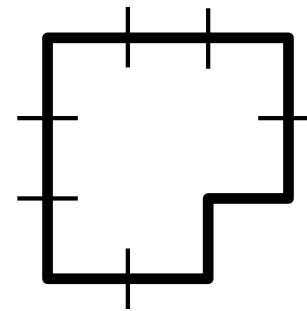
b)



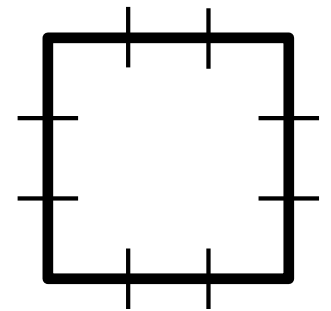
c)



d)

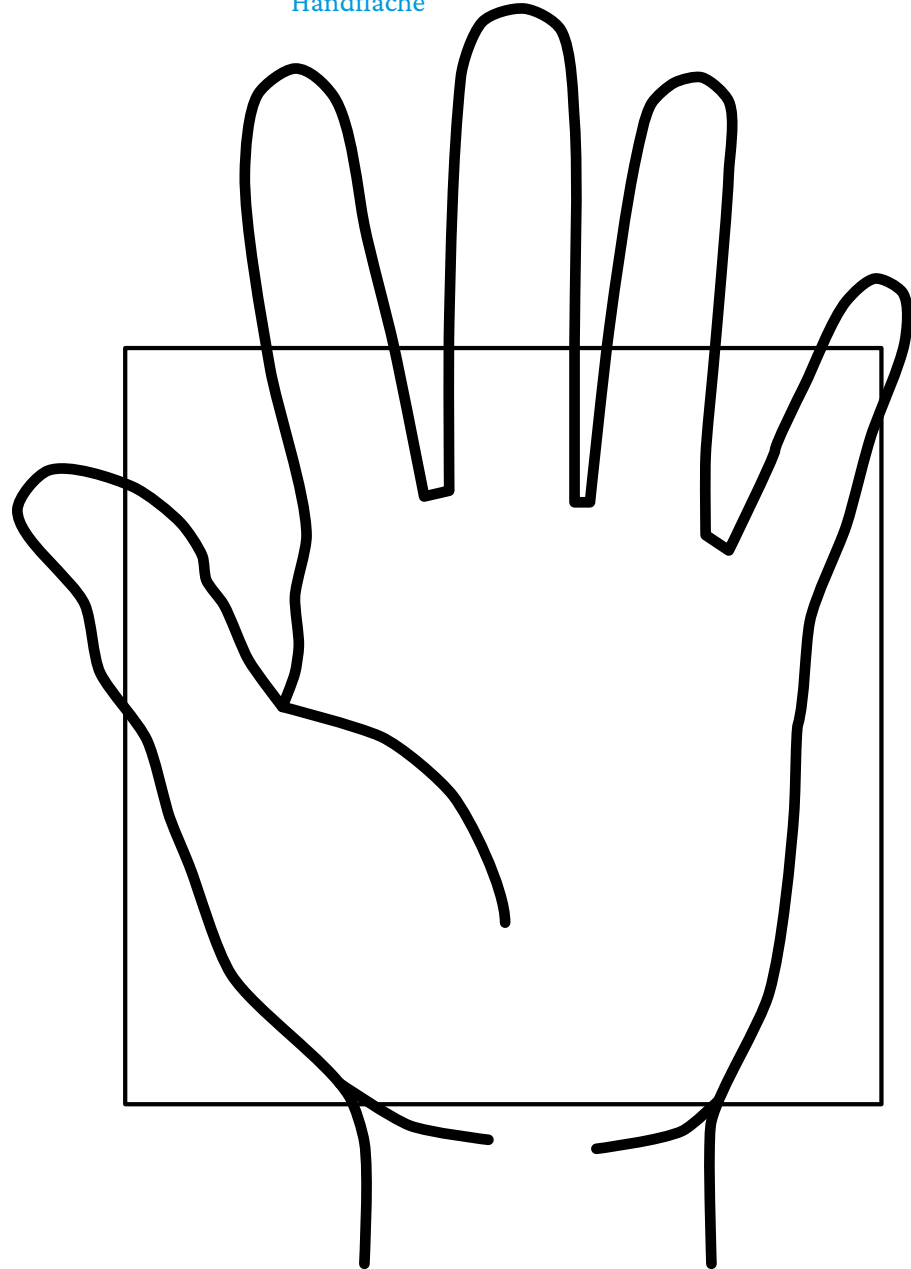


e)



MVÜA1

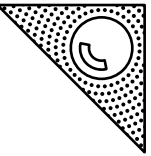
Handfläche



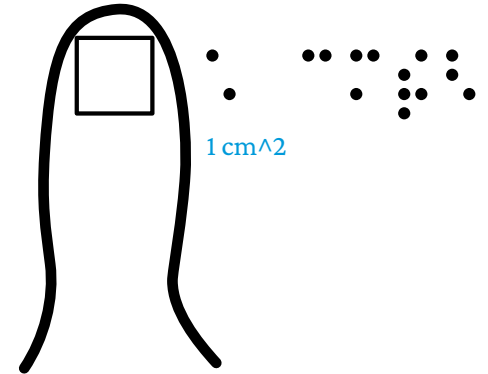
1 dm²

S.182 982

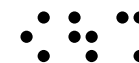
S.182 982



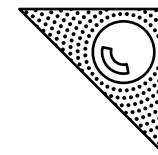
Daumennagel

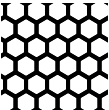
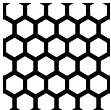
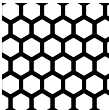
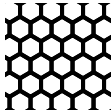
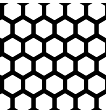
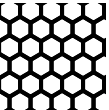
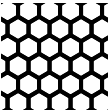


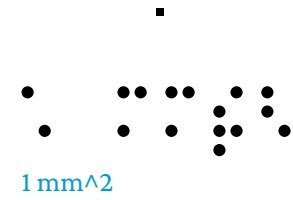
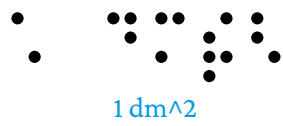
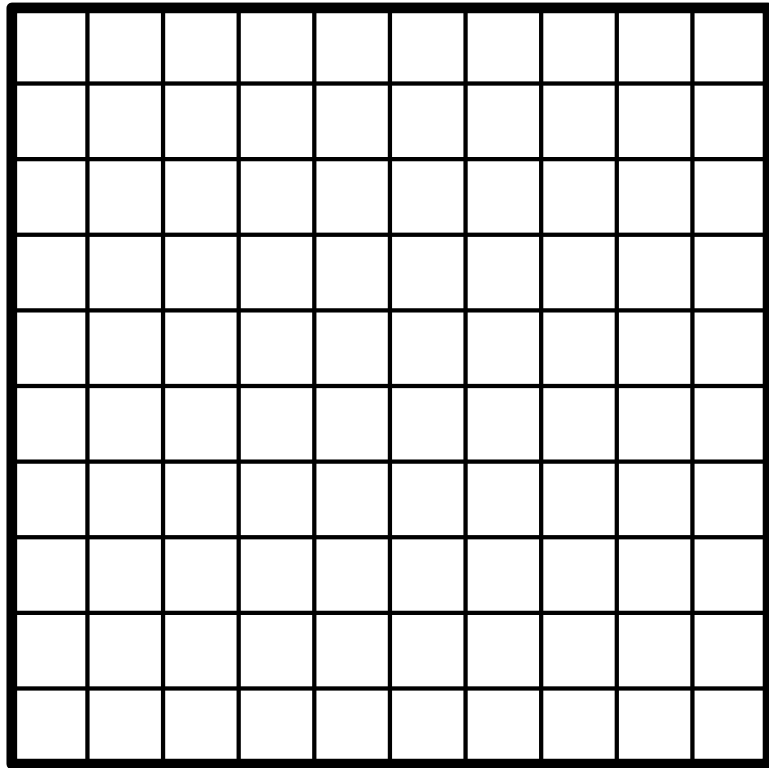
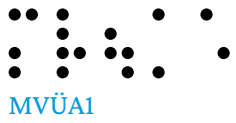
1 cm²

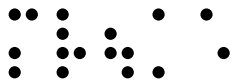


S.182 983



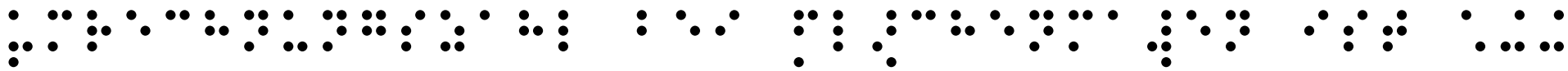
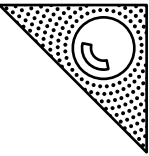




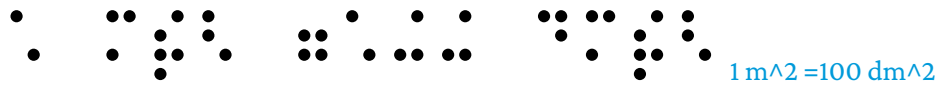
MVÜA1



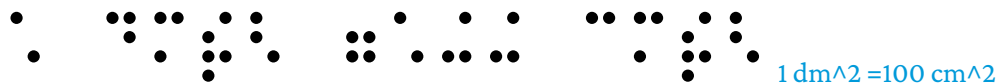
S.113



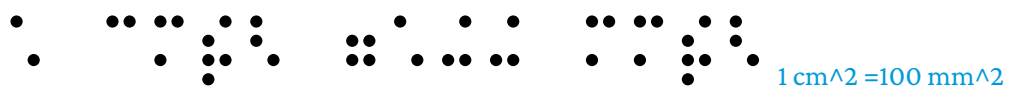
Umrechnungszahl bei Flächenmaßen ist 100



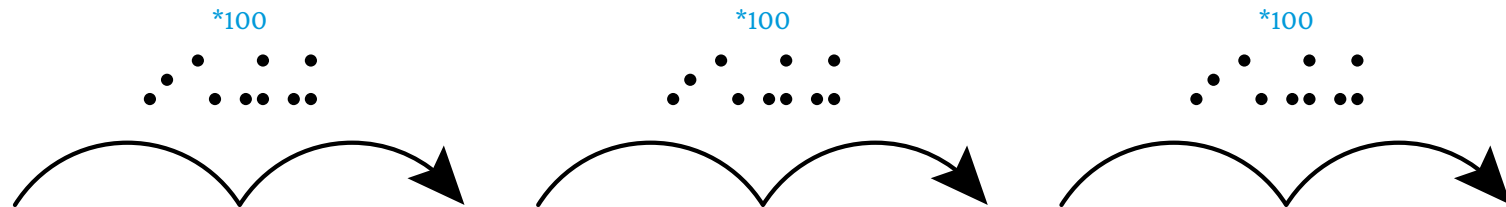
$1 \text{ m}^2 = 100 \text{ dm}^2$

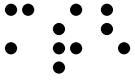
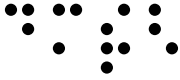
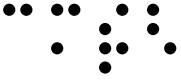
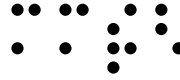


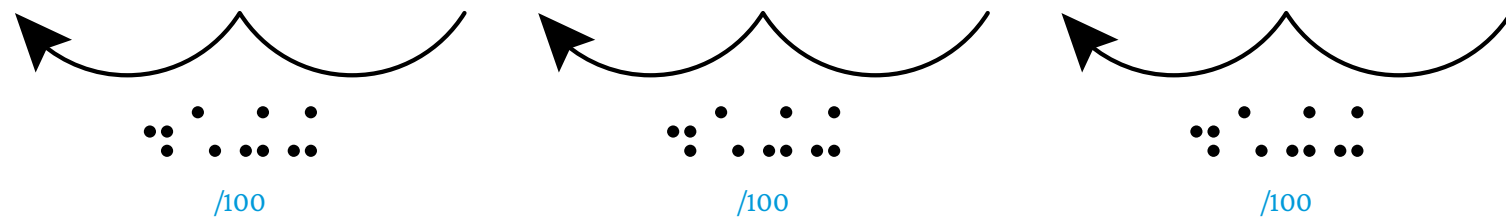
$1 \text{ dm}^2 = 100 \text{ cm}^2$

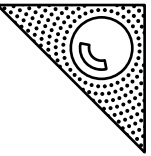


$1 \text{ cm}^2 = 100 \text{ mm}^2$



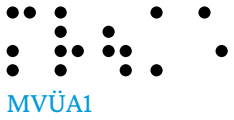
	 m^2		 dm^2		 cm^2		 mm^2
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Umrechnungstabelle

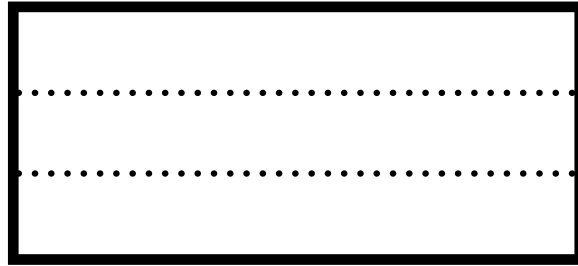
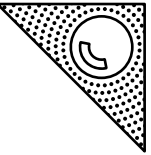
m ²		dm ²		cm ²		mm ²	
							
							
							



MVÜA1



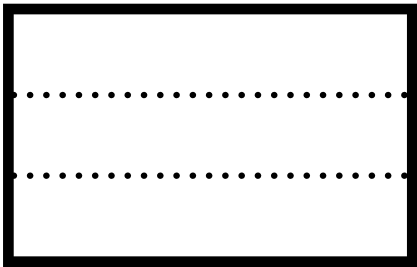
S.187 1, 2



3 cm



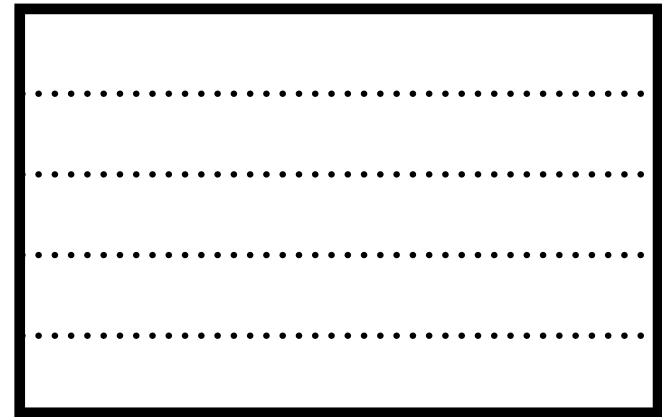
7 cm



3 cm



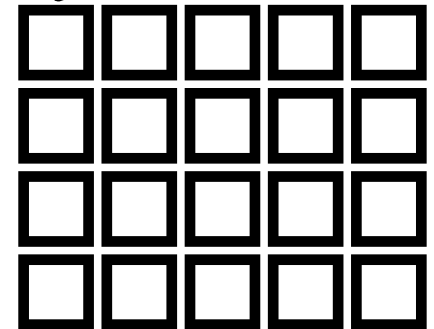
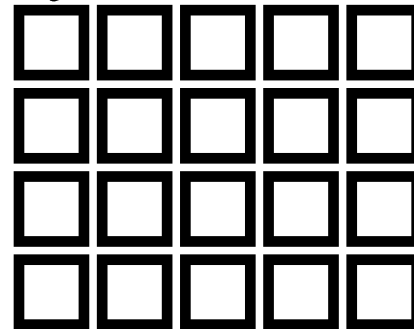
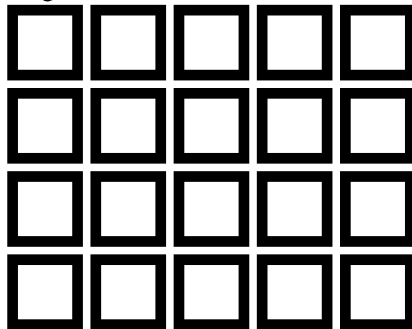
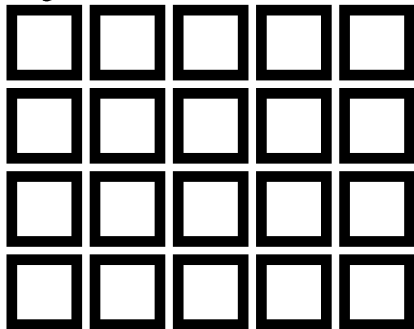
5 cm



5 cm

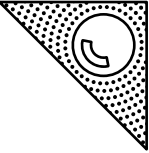


8 cm



MVÜA1

S.196



10

7

10

6

Mög. A

Mög. B

Mög. C

16

16

10

7

1

2

3

6

10

7

1

2

10

6

10

7

1

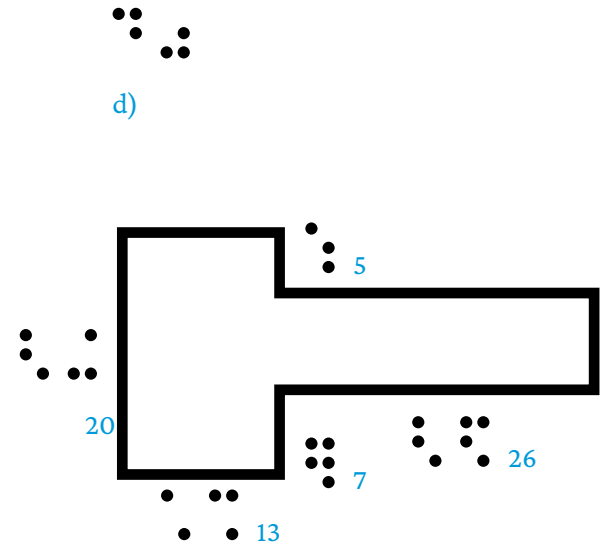
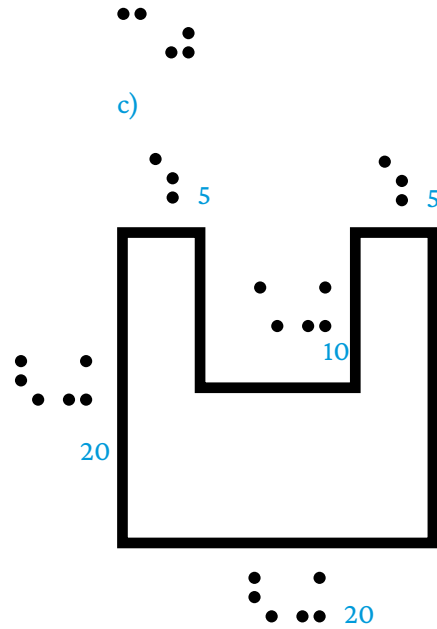
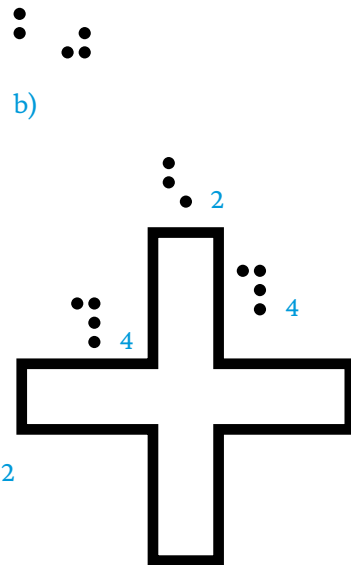
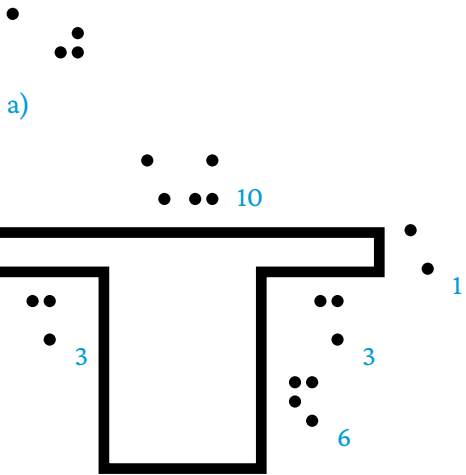
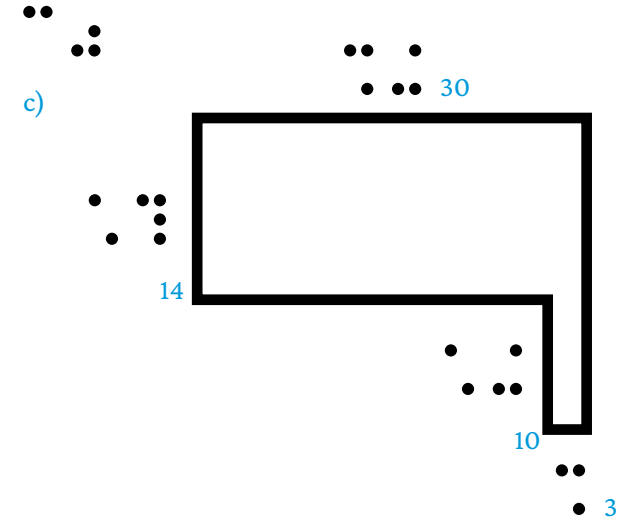
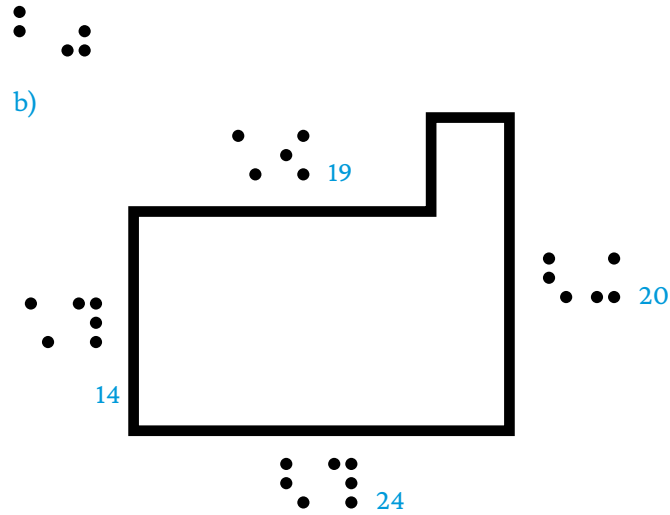
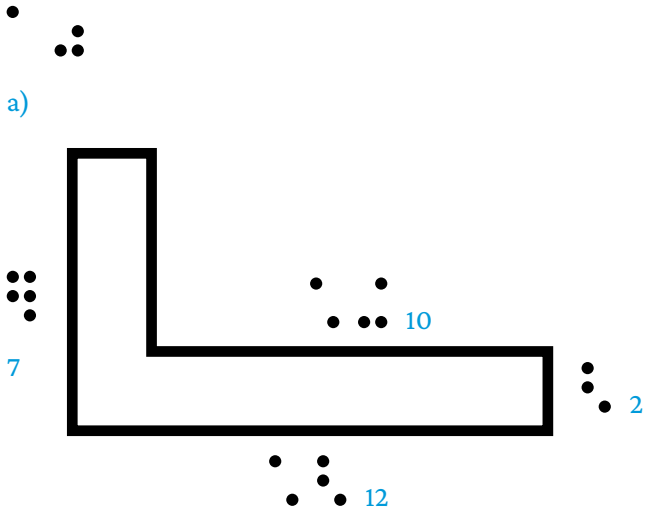
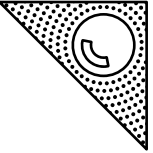
2

3

10

MVÜA1

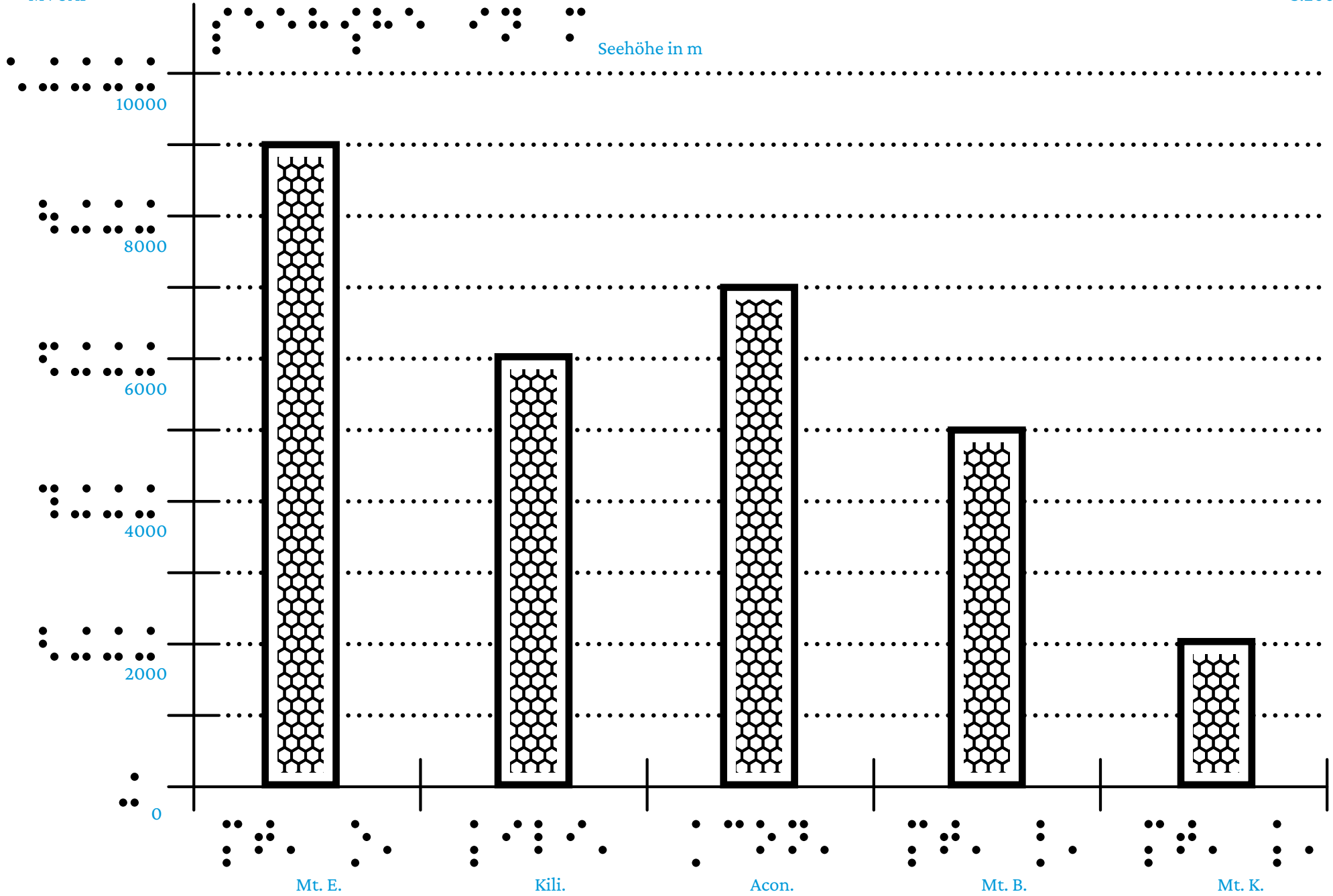
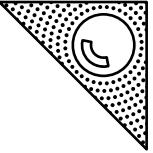
S.197 1046, 1047

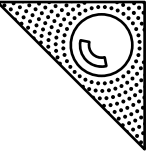


MVÜA1

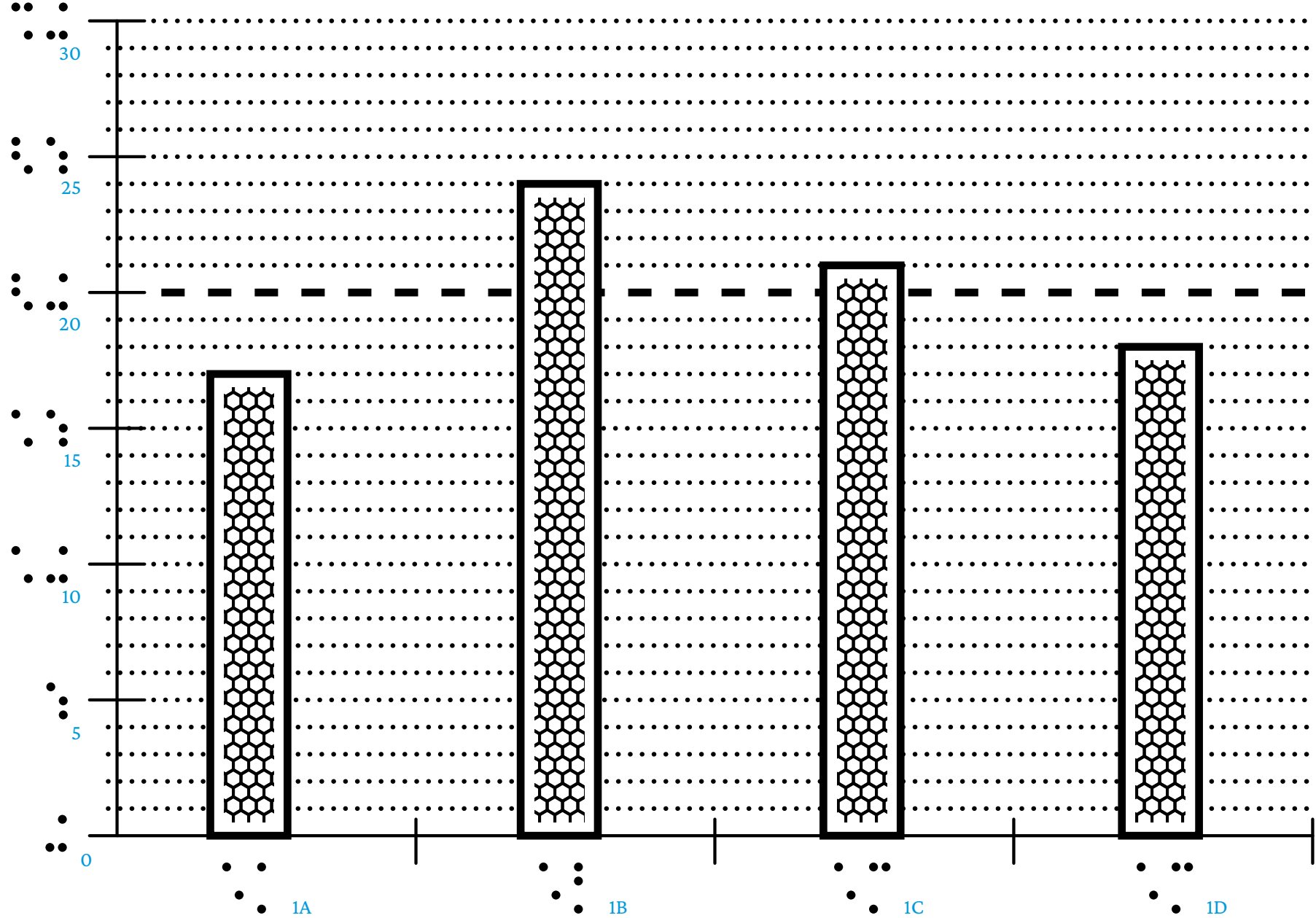
Höchste Berge

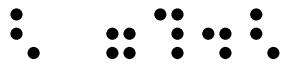
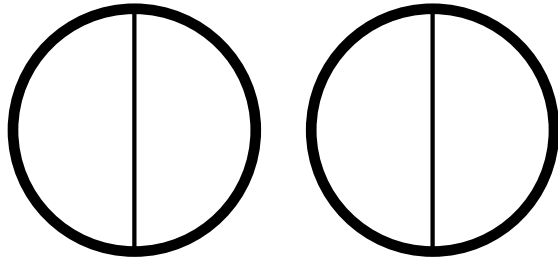
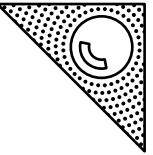
S.206



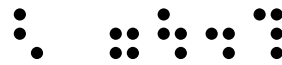
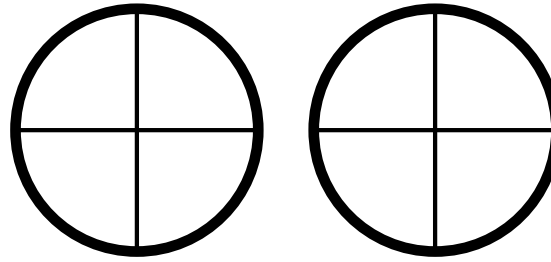


Anzahl der Kinder

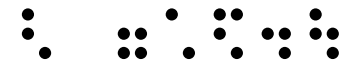
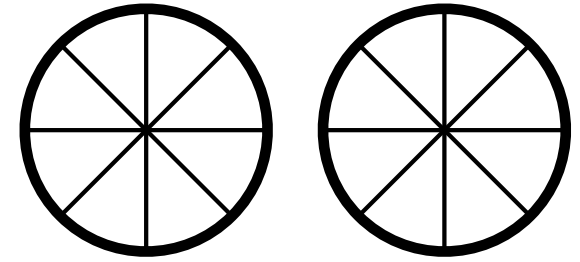




$$2 = 4/2$$



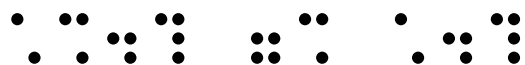
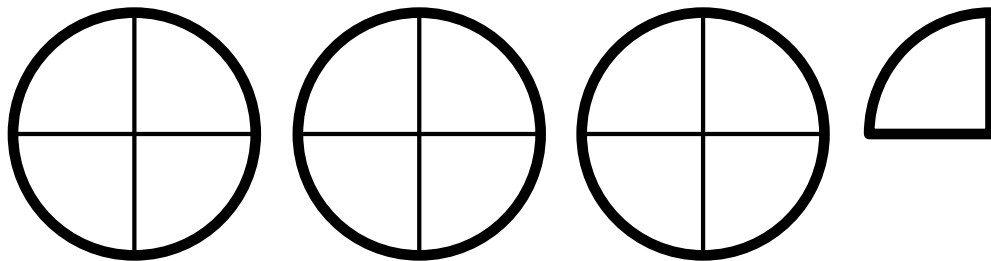
$$2 = 8/4$$



$$2 = 16/8$$



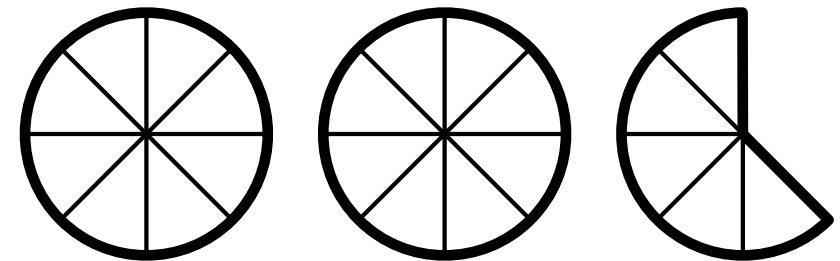
a)



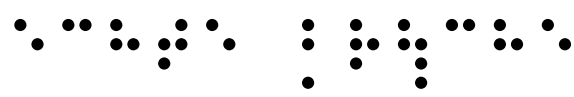
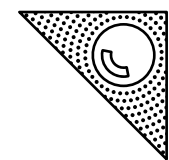
$$13/4 = 3 \frac{1}{4}$$



b)



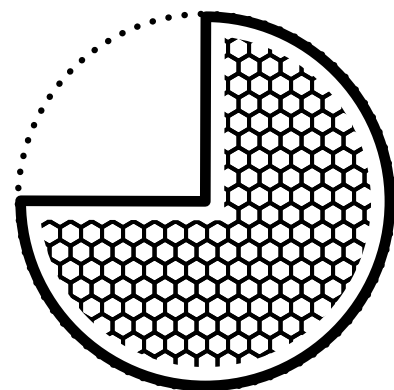
$$2 \frac{5}{8} = 21/8$$



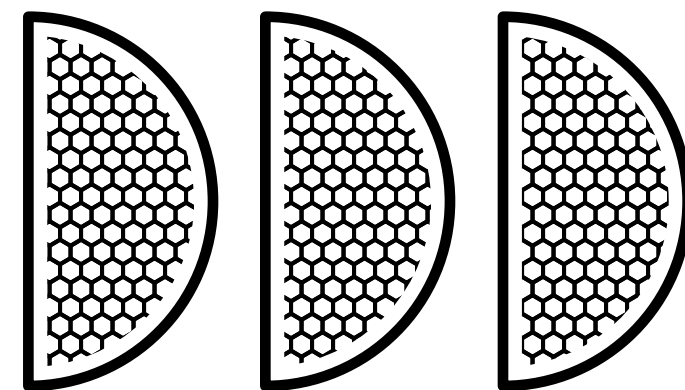
echte Brüche



unechte Brüche

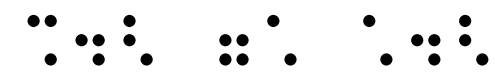


$3/4 < 1$

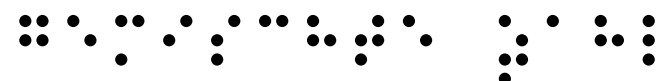


$3/2 > 1$

$3/2 = 1 1/2$



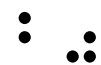
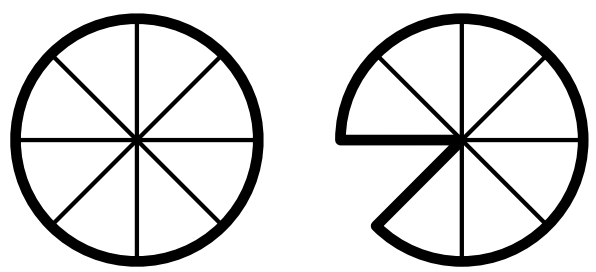
unechter Bruch



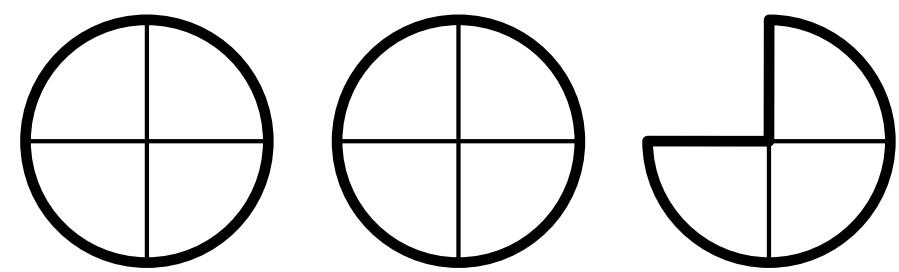
gemischte Zahl

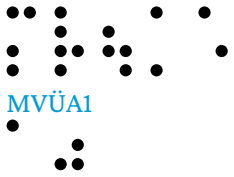


a)



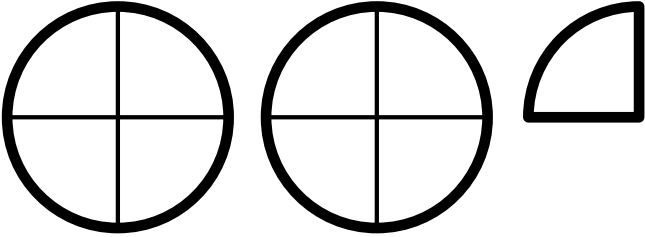
b)



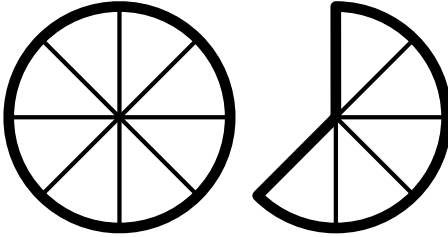


MVÜA1

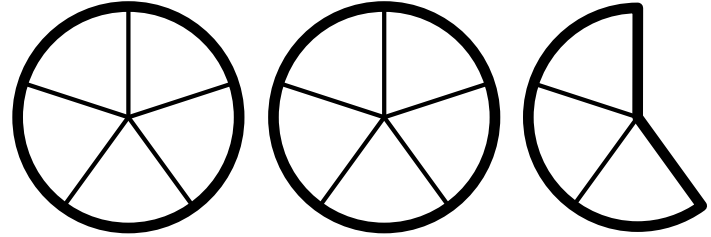
a)



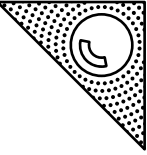
b)



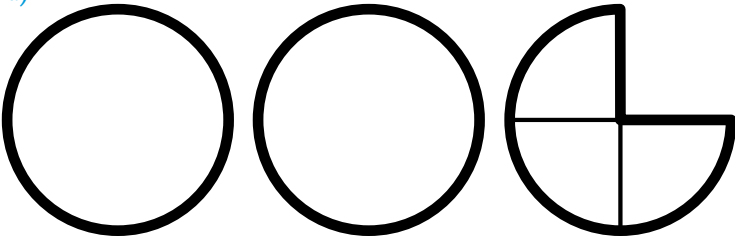
c)



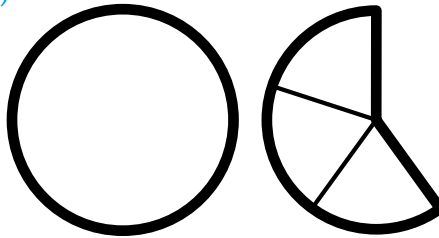
S.247 1315, 1318, 1322



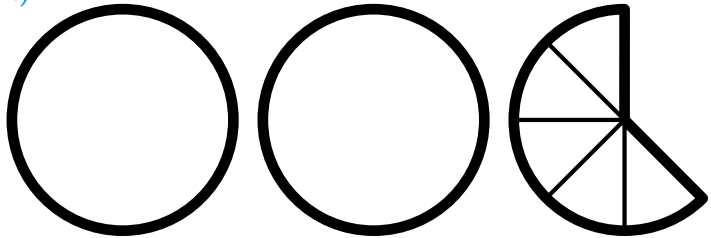
a)



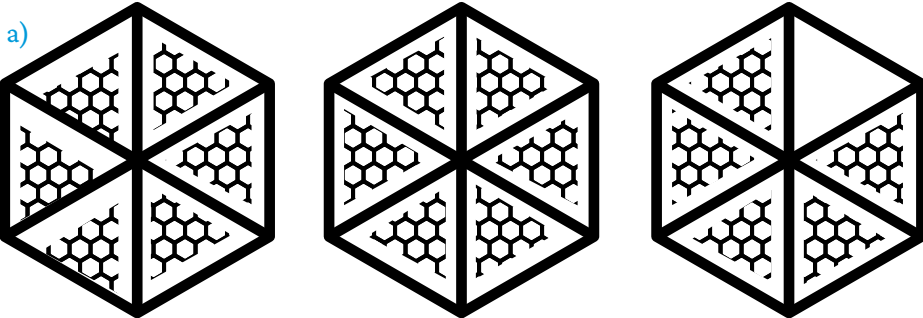
b)



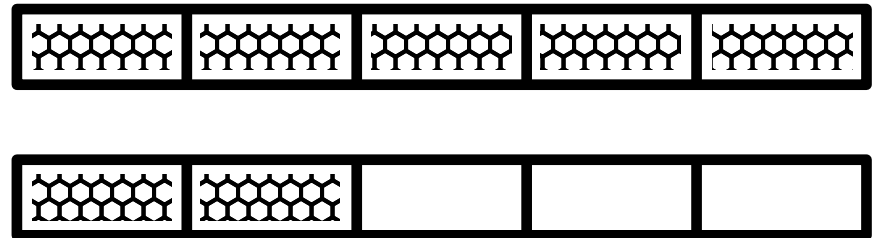
c)

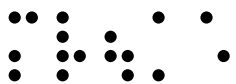


a)

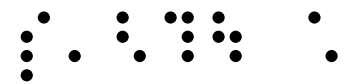


b)

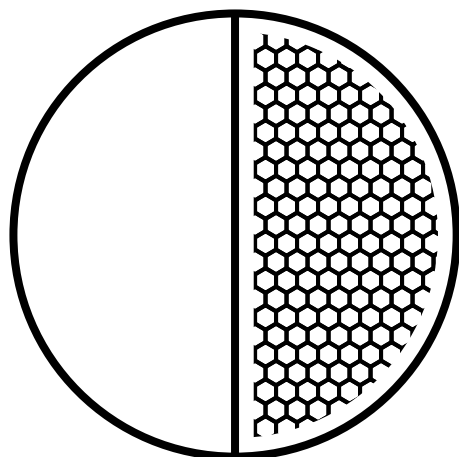
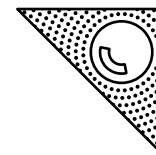




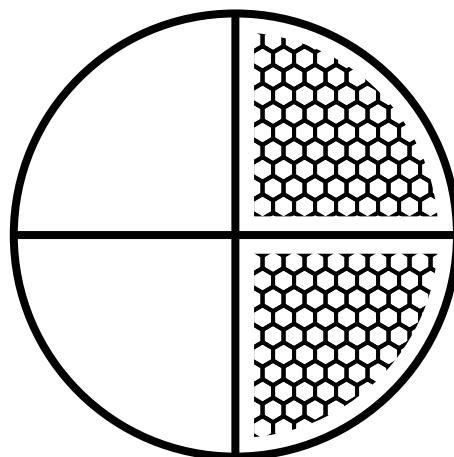
MVÜA1



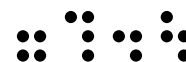
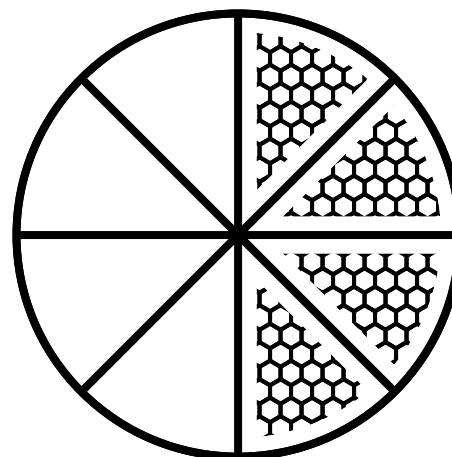
S.248 1



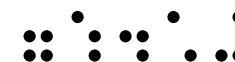
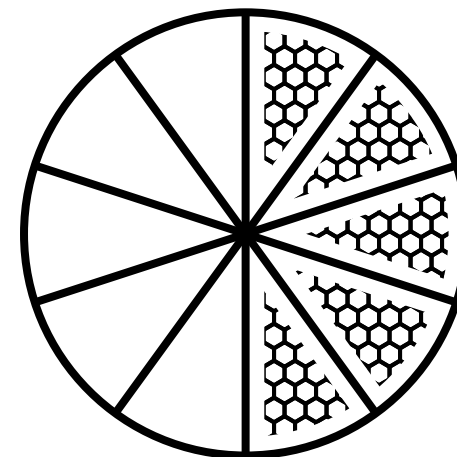
1/2



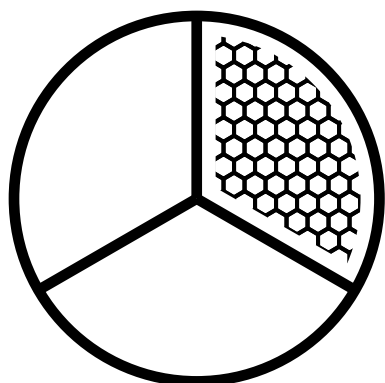
=2/4



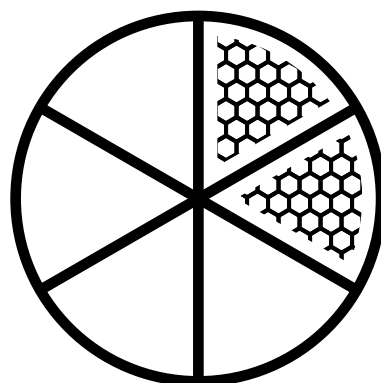
=4/8



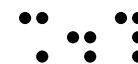
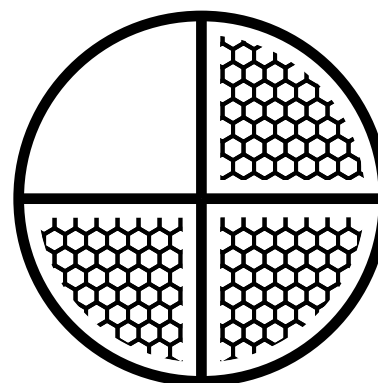
=5/10



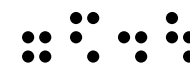
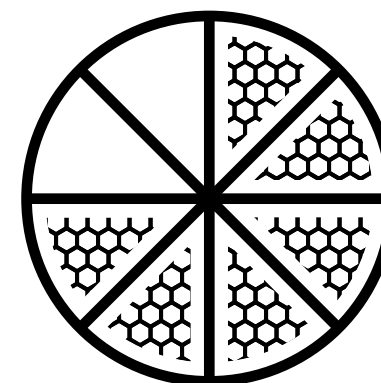
1/3



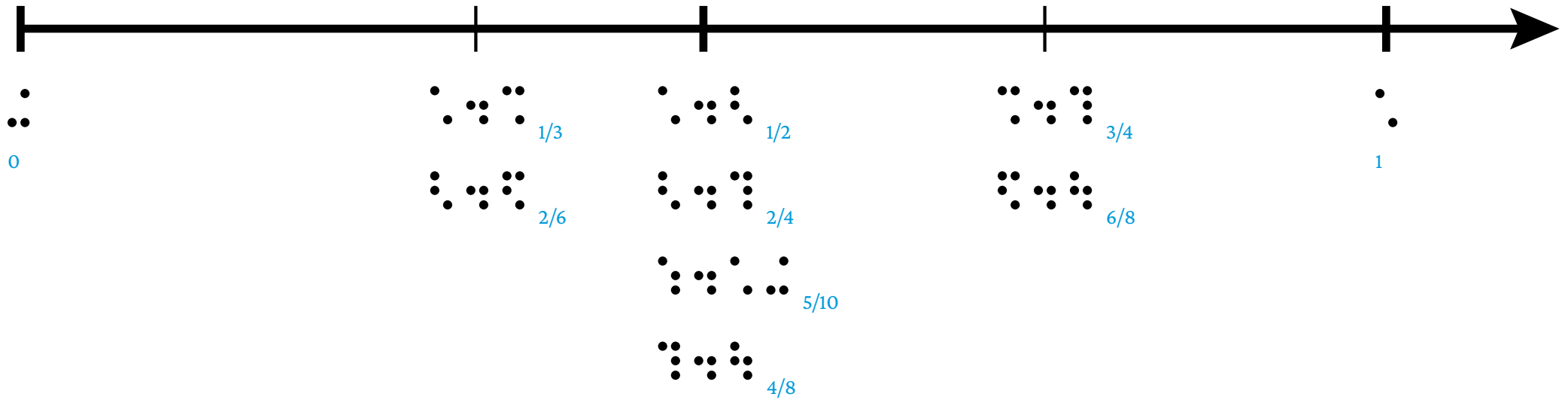
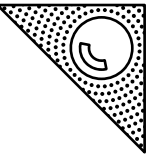
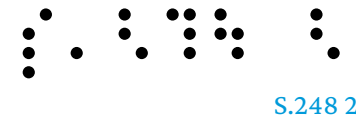
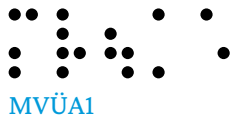
=2/6



3/4



=6/8

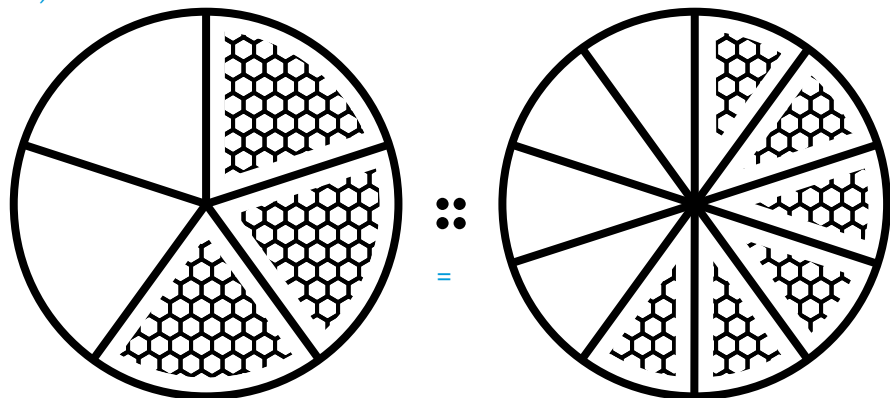




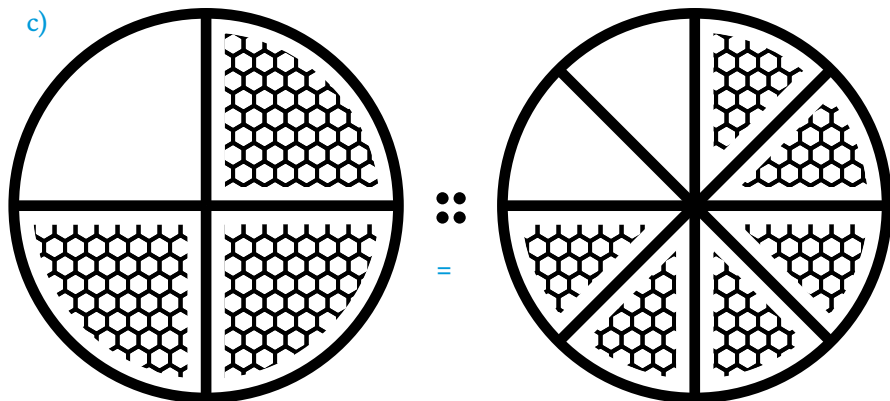
MVÜA1



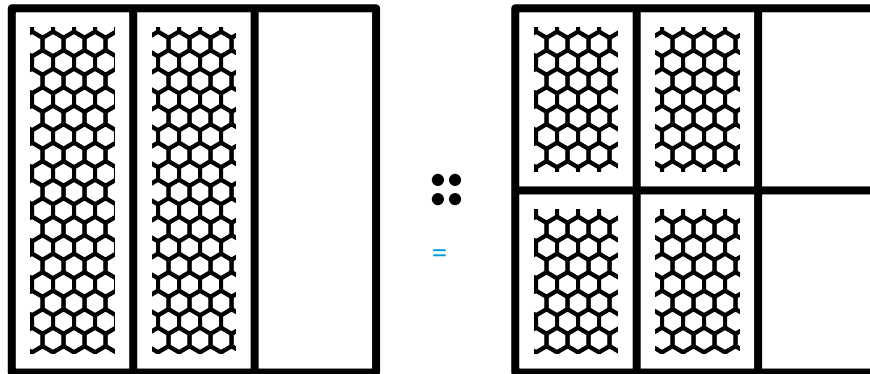
a)



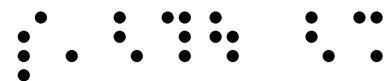
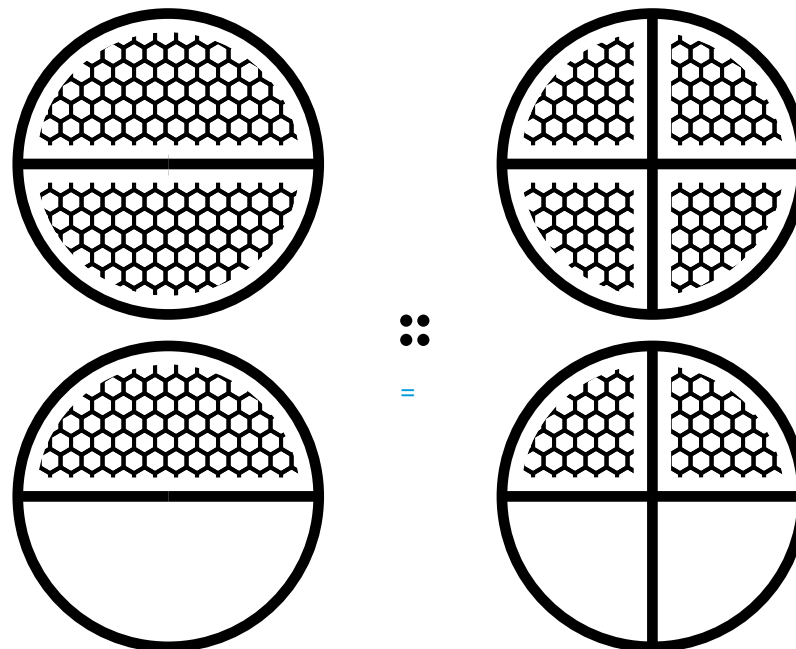
c)



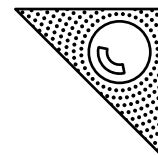
b)

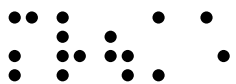


d)

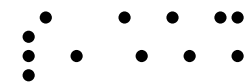


S.248 23

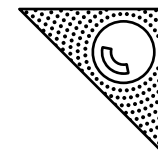




MVÜA1



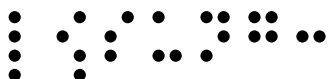
S.113



2



3



Lösung:



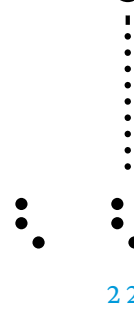
2



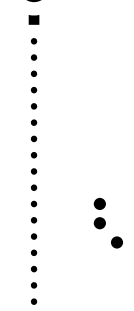
3



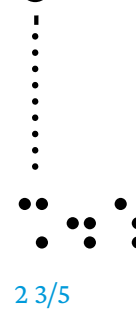
$2\frac{1}{4}$



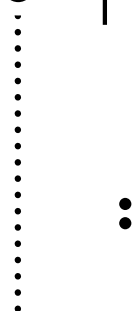
$2\frac{2}{5}$



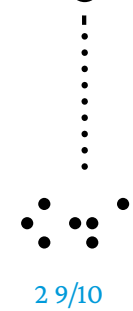
$2\frac{1}{2}$



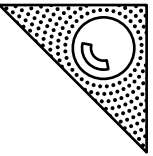
$2\frac{3}{5}$

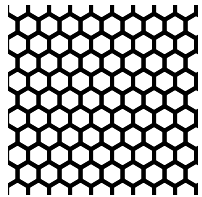
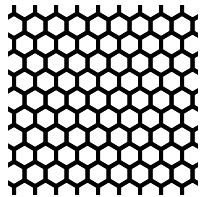
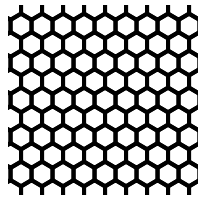


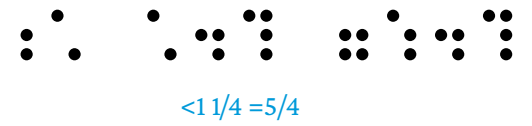
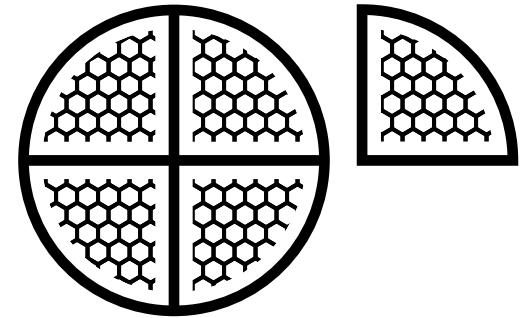
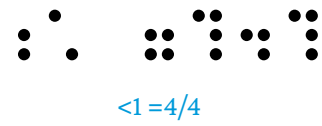
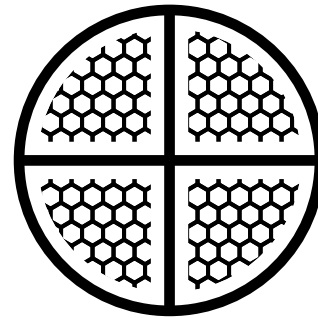
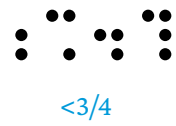
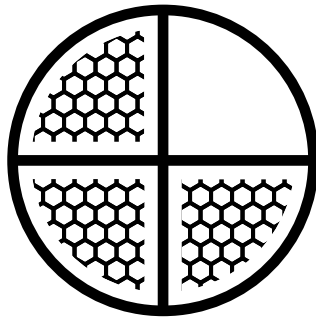
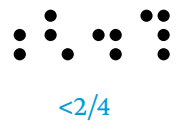
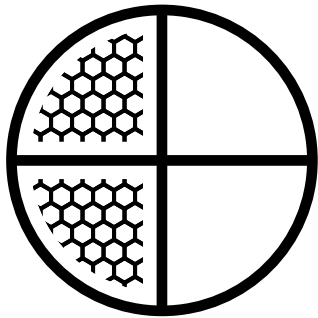
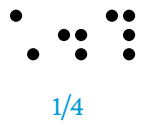
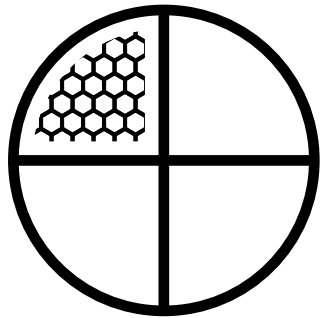
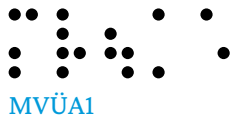
$2\frac{3}{4}$



$2\frac{9}{10}$



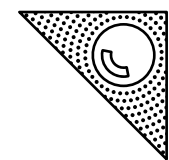




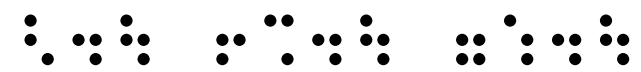
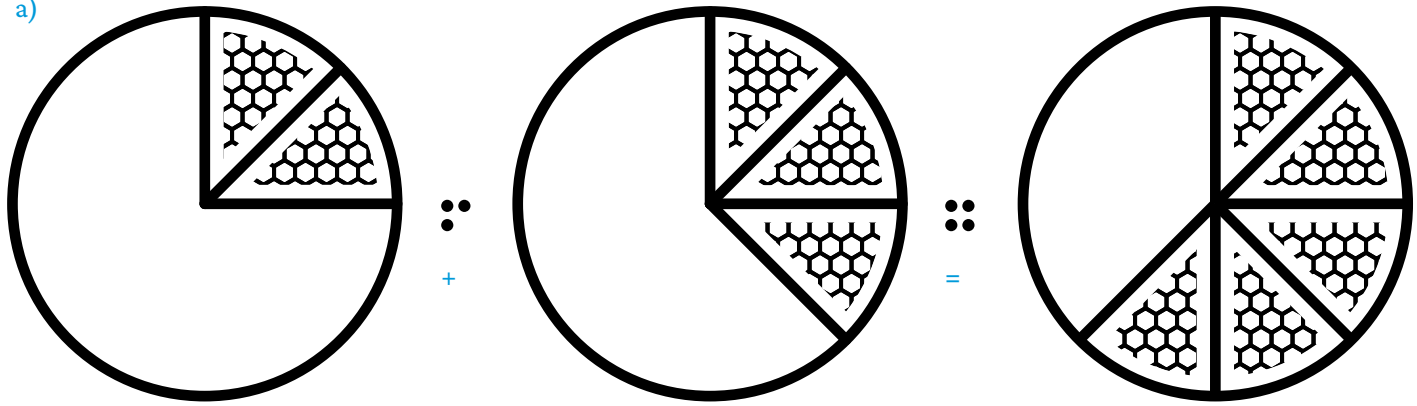
MVÜA1



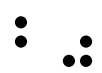
S.252



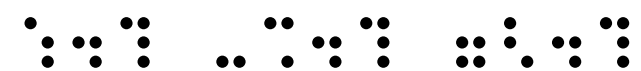
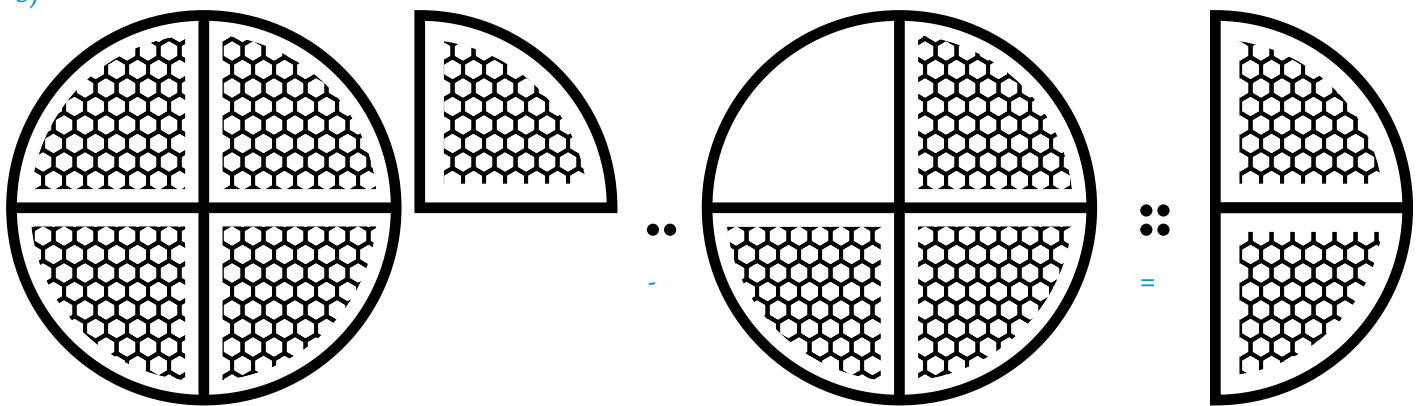
a)



$2/8 + 3/8 = 5/8$



b)



$5/4 - 3/4 = 2/4 = 1/2$