

Mathematische Übungen Klasse 1

Heft 3

Name:

Klasse:



$$5+5+5+5=20$$

$$3+3+3+3$$

$$6+6+6$$

$$8+8$$

$$2+2+2+2+2$$

$$4+4+4+4+4$$

$$7+7$$

$$10+10$$

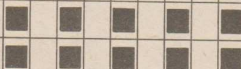
1



2

$$3 \cdot 2 = 6$$

$$2 \cdot 3 = 6$$



3



4

1 Nimm immer den größeren Faktor als Summand!

$$2 \cdot 5 = 5 + 5 \\ = 10$$

$$6 \cdot 2 = 6 + 6 \\ = 12$$

$$2 \cdot 8 = + \\ =$$

$$4 \cdot 2$$

$$2 \cdot 7$$

$$3 \cdot 2$$

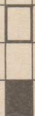
$$2 \cdot 9$$

$$10 \cdot 2$$

2



$$3 \cdot 2 = 6 \\ 2 \cdot 3 = 6$$



3





1



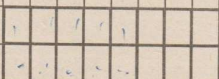
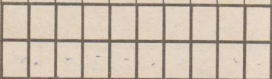
2

$$3 \cdot 2 = 2 \cdot 3 \\ = 6$$

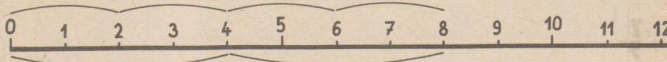
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4

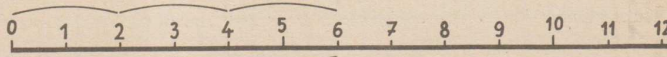


1

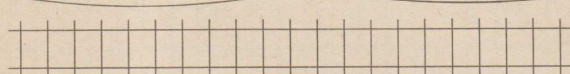
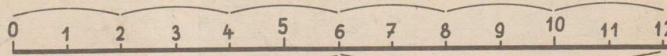


$$4 \cdot 2 = 8 \quad 2 \cdot 4 = 8$$

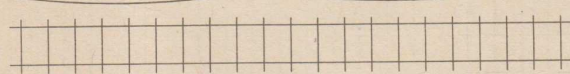
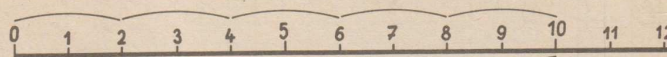
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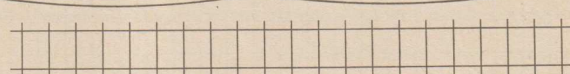
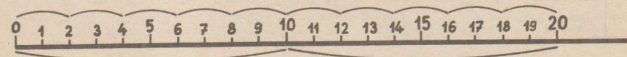
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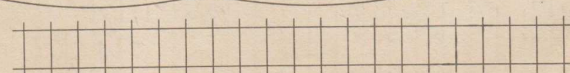
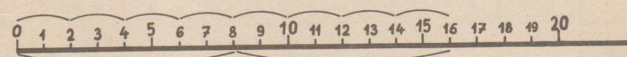
4



5



6



a	$a+a$	a	$2 \cdot a$	e	$e+e$	e	$2 \cdot e$	1
7		7		4		4		
3		3		2		2		
6		6		8		8		
9		9		5		5		
1		1		10		10		

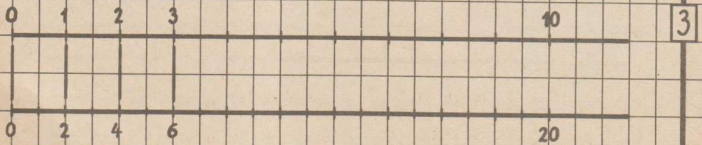
$$8 = 4 + 4 \qquad 10 = 5 + 5 \qquad 16 = \dots + \dots \quad 2$$

$$= 2 \cdot 4$$

$$= 4 \cdot 2$$

$$6 \qquad 14 \qquad 20$$

$$4 \qquad 18 \qquad 12$$




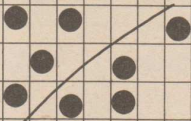

1	1 — 2	6	2	$20 = 10 \cdot 2$	$10 =$
	2 — 4	7		18	8
	3	8		16	6
	4	9		14	4
	5	10		12	2

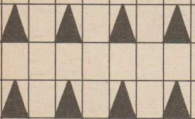
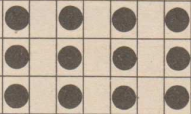

3	x	$2 \cdot x$	$x \cdot 2$	x	$2 \cdot x$	$x \cdot 2$
	4			8		
	10			5		
	7			1		
	3			9		
	6			2		

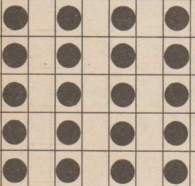
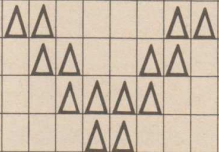

4	$5 \cdot 2 = 10$	$4 \cdot 2$	$9 \cdot 2$
	$2 \cdot 5$	$8 \cdot 2$	$10 \cdot 2$
	$2 \cdot 7$	$2 \cdot 8$	$2 \cdot 6$
	$3 \cdot 2$	$2 \cdot 2$	$6 \cdot 2$

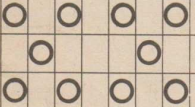
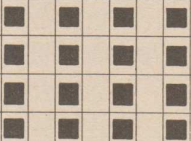

5	$17 + 3 = 20$	$13 - 6$	$18 - 7$
	$16 - 4$	$9 + 4$	$13 - 3$
	$19 - 7$	$8 + 7$	$14 - 6$
	$13 + 5$	$15 - 9$	$9 - 7$
	$11 + 7$	$12 - 5$	$20 - 4$

Zerlege !

			1
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			2
--	---	---	---

			3
--	---	---	---

			4
--	---	---	---

	5
---	---

1



$$8 : 2 = 4$$

$$\text{denn } 4 \cdot 2 = 8$$



$$12 : 2 =$$

denn

2



denn



denn

3



denn

4



denn



denn

5



denn

6



denn

7

$$20 : 2 =$$

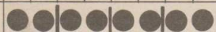
$$14 : 2 =$$

$$16 : 2 =$$

$$10 : 2 =$$

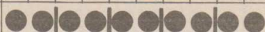
$$12 : 2 =$$

$$18 : 2 =$$



$$8 : 2 = 4$$

denn $4 \cdot 2 = 8$



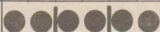
$$10 : 2 =$$

denn

1

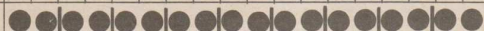


denn



denn

2



denn

3



denn



denn

4



denn

5



denn

6

$$2 \cdot 8 =$$

$$8 \cdot 2 =$$

$$2 \cdot 7 =$$

$$7 \cdot 2 =$$

$$2 \cdot 9 =$$

$$9 \cdot 2 =$$

7

1



$$20 : 2 = 10$$
$$10 \cdot 2 = 20$$

2



.	1	2	3	4	5	6	7	8	9	10	1
1											
2			6								
3		6									
4											
5											
6			$1 \cdot 2 = 2 \cdot 1$				$3 \cdot 2$				
7			$= 2$								
8											
9			$2 \cdot 2 = 2 \cdot 2$				$4 \cdot 2$				
10			$=$								

$5 \cdot 2$

$6 \cdot 2$

$7 \cdot 2$

$8 \cdot 2$

$9 \cdot 2$

$10 \cdot 2$

a	a : 2
20	
16	
4	
10	
6	

e	e : 2
18	
12	
8	
2	
14	

2

1	·	1	2	3	4	5	6	7	8	9	10
	1	1	2	3	4	5	6	7	8	9	10
	2	2	4	6	8	10	12	14	16	18	20
	3	3	6								
	4	4	8							$3 \cdot 3 = 3 \cdot 3$	
	5	5	10							$= 9$	
	6	6	12								
	7	7	14							$4 \cdot 3 = 3 \cdot 4$	
	8	8	16							$=$	
	9	9	18								
	10	10	20		$5 \cdot 3$				$6 \cdot 3$		

$$3 \cdot 4$$

$$4 \cdot 4$$

$$5 \cdot 4$$

$$3 \cdot 5$$

$$4 \cdot 5$$

$$3 \cdot 6$$

$$2 \quad 6 + 6 + 6 = 3 \cdot 6$$

$$= 18$$

$$5 + 5 + 5 + 5 = 4 \cdot 5$$

$$=$$

$$3 + 3 + 3 + 3$$

$$7 + 7$$

$$9 + 9$$

$$4 + 4$$

$$8 + 8$$

a	a · 2	e	2 · e	2 · a	a	1
6		10		18		
3		7		10		
9		4		6		
2		8		20		
10		1		14		
5		9		12		

e	e : 2	u	u : 2	a	2 · a	a · 2	2
8		12		9			
16		4		3			
20		2		10			
10		14		7			
6		18		4			

2 · x = 4 x = 2	2 · a = 12 a =	2 · u = 20 u =	3
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x · 2 = 8 x =	u · 2 = 16 u =	e · 2 = 14 e =	
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x · 2 = 6 x =	e · 2 = 10 e =	u · 2 = 2 u =	4
------------------------	-------------------------	------------------------	---

2 · a = 16 a =	2 · u = 18 u =	2 · x = 10 x =	
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1	a	e	a · e	e	u	e · u
	7	2		2	9	
	2	7		2	3	
	4	2		10	2	
	8	2		2	2	
	2	6		9	2	
	6	2		2	1	

2	a	e	a · e	x	u	x · u
	2	4		2	10	
	2	8		1	2	
	3	2		2	8	
	5	2		7	2	
	2	5		8	2	
	9	2		2	6	

3	$4 \cdot x = 8$ $x = \dots$	$2 \cdot a = 10$ $a = \dots$	$u \cdot 2 = 14$ $u = \dots$
	$8 \cdot a = 16$ $a = \dots$	$e \cdot 2 = 18$ $e = \dots$	$x \cdot 2 = 6$ $x = \dots$
	$10 \cdot x = 20$ $x = \dots$	$x \cdot 10 = 20$ $x = \dots$	$2 \cdot x = 18$ $x = \dots$

x	a	x+a	e	u	e-u
16	4		19	6	
9	7		14	8	
12	5		13	9	
8	0		20	0	
7	7		8	6	
14	3		16	4	

1

u	e	u · e	e	e : 2	x	x : 2
7	2		12		2	
2	9		20		6	
9	2		8		14	
5	2		16		18	
2	8		10		12	
10	2		4		8	

2

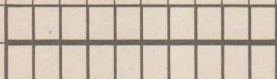
8 - 2 =	6	4	2	8	10	2	12
8 + 2 =	10	4	2	2	10	2	5
8 · 2 =	16	4	2	2	10	2	20
8 : 2 =	4	4	2	6	10	2	8

3

6	2	3	2	2	0	14	2	12
6	2	4	2	2	4	14	2	7
6	2	8	2	2	1	14	7	7
6	2	12	2	2	4	14	2	16

4

1



$$10 + 10 = 20$$

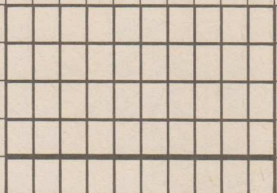
$$2 \cdot 10 = 20$$



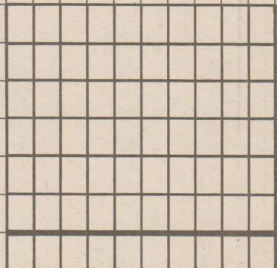
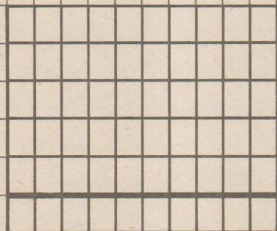
$$20 + 10 =$$

$$3 \cdot 10 =$$

2



3



1

2

 a $a \cdot 10$

3

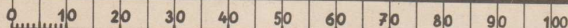
7
4
10
9
5
3
8
2
6

1	$x \cdot 10 = 30$ $x = 3$	$a \cdot 10 = 70$ $a =$	$u \cdot 10 = 50$ $u =$
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$e \cdot 10 = 90$ $e =$	$u \cdot 10 = 60$ $u =$	$x \cdot 10 = 80$ $x =$
----------------------------	----------------------------	----------------------------

2	$30 = x \cdot 10$ $x =$	$70 = u \cdot 10$ $u =$	$20 = e \cdot 10$ $e =$
---	----------------------------	----------------------------	----------------------------

$100 = e \cdot 10$ $e =$	$40 = a \cdot 10$ $a =$	$70 = x \cdot 10$ $x =$
-----------------------------	----------------------------	----------------------------



3	$50 < 60$	$70 > 60$	$60 = 60$
	70 80	100 90	50 40
	30 40	40 30	80 90
	10 20	90 80	60 70
	20 30	20 10	40 40

4	60 30	80 80	20 40
	60 20	50 30	100 10
	70 90	30 50	70 70
	40 50	20 60	30 90
	30 60	20 90	60 40

$20 + 20 = 40$

1

$60 + 20$

$70 + 20$

$50 + 30$

$20 < 50; 20 + 30 = 50$

$70 > 10; 10 + 60 = 70$

$60 \quad 60;$

$90 \quad 30;$

2

$20 + 50$

$40 + 30$

$60 + 30$

$40 + 20$

$40 \quad 60;$

$60 \quad 90;$

$70 \quad 60;$

$30 \quad 50;$

$60 + 40$

$80 + 20$

$50 + 50$

$70 + 30$

$100 \quad 70;$

$20 \quad 40;$

$70 \quad 40;$

$40 \quad 70;$

$60 - 20 = 40$

$70 - 20$

$80 - 30$

$90 - 30$

$40 - 20$

$70 - 30$

$80 - 50$

$50 - 30$

$50 + 40$

$80 - 20$

$60 + 20$

$90 - 30$

3

$50 + x = 80$

$x = 30$

$10 + x = 90$

$x =$

$x + 20 = 60$

$x =$

4

$50 - x = 10$

$x =$

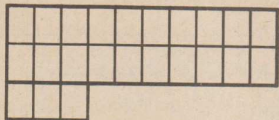
$80 - x = 0$

$x =$

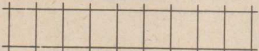
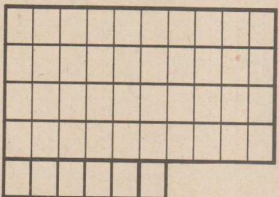
$x - 60 = 40$

$x =$

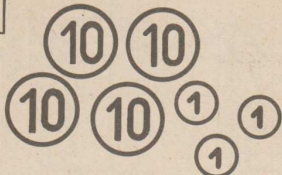
1



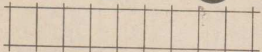
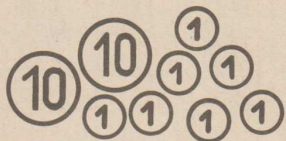
$$23 = 2 \cdot 10 + 3$$



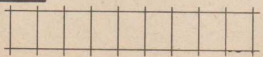
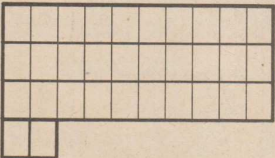
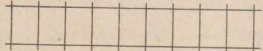
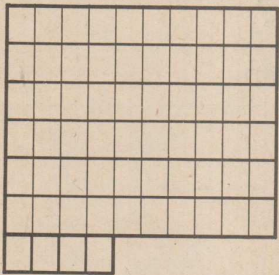
3



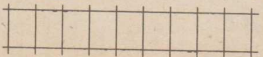
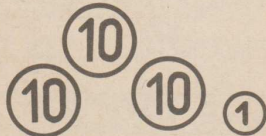
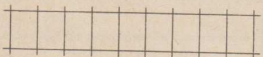
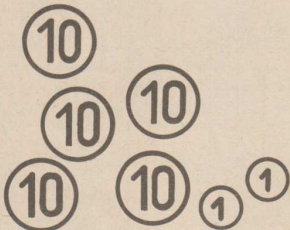
$$43 = 4 \cdot 10 + 3$$



2



4



x	y	x+y	x	y	$x \cdot 10$	$x \cdot 10 + y$	1
10	7		4	1			
30	4		3	5			
50	3		5	3			
20	8		7	2			
70	2		6	7			
40	1		8	0			
60	0		9	9			
90	5		2	2			

$$27 = 2 \cdot 10 + 7$$

53

39

74

98

45

66

19

84

33

16

42

61

57

25

60

2

$$4 \cdot 10 + 5 = 45$$

9 \cdot 10 + 4

6 \cdot 10 + 3

8 \cdot 10 + 2

3 \cdot 10 + 8

$$7 \cdot 10 + 8$$

4 \cdot 10 + 0

2 \cdot 10 + 7

5 \cdot 10 + 1

6 \cdot 10 + 6

3

$$\begin{array}{l} 40 + a = 43 \\ a = 3 \end{array} \quad \begin{array}{l} 70 + e = 77 \\ e = \end{array} \quad \begin{array}{l} 20 + u = 26 \\ u = \end{array}$$

$$\begin{array}{l} 50 + u = 51 \\ u = \end{array} \quad \begin{array}{l} 90 + x = 98 \\ x = \end{array} \quad \begin{array}{l} 60 + e = 66 \\ e = \end{array}$$

$$\begin{array}{l} a + 4 = 54 \\ a = 50 \end{array} \quad \begin{array}{l} e + 7 = 27 \\ e = \end{array} \quad \begin{array}{l} u + 3 = 33 \\ u = \end{array}$$

$$\begin{array}{l} x + 9 = 69 \\ x = \end{array} \quad \begin{array}{l} e + 2 = 82 \\ e = \end{array} \quad \begin{array}{l} a + 5 = 15 \\ a = \end{array}$$

$$\begin{array}{l} 64 < 76 \\ 82 \quad 93 \\ 24 \quad 12 \end{array} \quad \begin{array}{l} 95 > 78 \\ 33 \quad 56 \\ 47 \quad 98 \end{array} \quad \begin{array}{l} 50 \quad 68 \\ 90 \quad 27 \\ 34 \quad 74 \end{array}$$

$$\begin{array}{l} 32 < 38 \\ 68 \quad 69 \\ 79 \quad 72 \end{array} \quad \begin{array}{l} 48 > 41 \\ 88 \quad 87 \\ 56 \quad 50 \end{array} \quad \begin{array}{l} 93 \quad 94 \\ 94 \quad 93 \\ 26 \quad 29 \end{array}$$

$$\begin{array}{l} 86 \quad 25 \\ 47 \quad 49 \end{array} \quad \begin{array}{l} 38 \quad 32 \\ 75 \quad 12 \end{array} \quad \begin{array}{l} 74 \quad 74 \\ 86 \quad 91 \end{array}$$

30 31

34

38

1

70

73

79

61

66

47

55

2

89

95

23 24

76 77

89 90

3

54 55

80 81

97 98

29

31

46

48

34 35

4

40 41

70

99

63

65

31

33

72

74

5

78

28

69

1 Ordne die Zahlen der Größe nach!
Beginne mit der kleinsten Zahl!

36, 44, 40, 33 | 48, 53, 57, 49
33, 36, 40, 44 | 48, _____

22, 65, 19, 54 | 86, 42, 0, 78

60, 30, 70, 90 | 16, 97, 44, 31

34, 87, 78, 12 | 8, 80, 18, 88

2 Ordne die Zahlen der Größe nach!
Beginne mit der größten Zahl!

48, 39, 49, 32 | 72, 78, 64, 60
49, _____

27, 58, 13, 57 | 80, 10, 90, 70

44, 100, 82, 0 | 77, 22, 99, 55

$5 + 3 = 8$	$2 + 7$	$8 - 6$	1
$15 + 3 = 18$	$12 + 7$	$18 - 6$	
$50 + 30 = 80$	$20 + 70$	$80 - 60$	

$9 - 4$	$6 + 4$	$7 - 3$
$19 - 4$	$16 + 4$	$17 - 3$
$90 - 40$	$60 + 40$	$70 - 30$

e	$30 + e$	a	$60 + a$	u	$90 + u$	2
4		9		2		
7		6		8		
9		1		9		
3		5		7		
6		7		3		
2		8		5		

a	e	$a + e$	u	e	$u - e$	e	u	$e + u$	3
60	20		50	10		40	30		
10	70		70	60		40	3		
50	30		90	20		70	20		
40	50		40	10		70	2		
50	40		80	80		10	80		
30	10		60	30		10	8		
80	10		100	10		30	30		
						30	3		

	a	x	a·x	e	u	e·u	u	e	u:e
1	2	7		2	5		16	2	
	7	2		10	2		20	2	
	6	2		2	8		8	1	
	9	2		2	4		8	2	
	2	3		5	2		10	1	
	2	2		2	1		14	2	

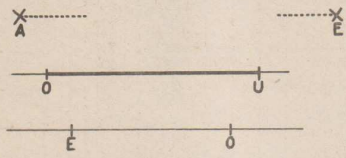
	a	x	a·10	a·10+x	
2	7	2			12+4=
	5	6			17-9
	2	4			8+5
	8	8			7-7
	4	3			13-9
	6	1			11+6
					2+9

3	$8+x=12$	$15-a=13$
	$x=4$	$a=$

	$8+x < 12$	$15-a > 13$
	$x=0,1,2,3$	$a=$

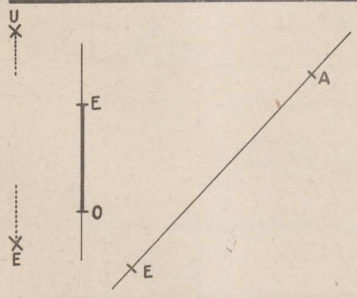
4	$11-e=7$	$9+u=12$
	$e=$	$u=$

	$11-e > 7$	$9+u < 12$
	$e=$	$u=$



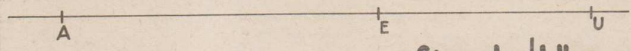
Strecke	Länge
\overline{AE}	..... cm
\overline{OU}	..... cm
\overline{EO}	..... cm

1



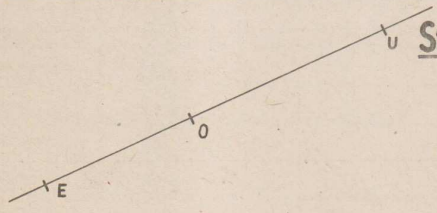
Strecke	Länge
\overline{EU}	..... cm
\overline{OE}	..... cm
\overline{EA}	..... cm

2



Strecke	Länge
\overline{AE}	..... cm
\overline{EU}	..... cm
\overline{AU}	..... cm

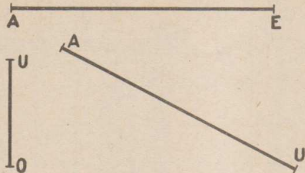
3



Strecke	Länge
\overline{EO}	..... cm
\overline{OU}	..... cm
\overline{EU}	..... cm

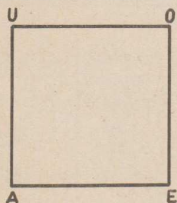
4

1



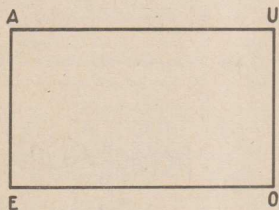
Strecke	Länge
\overline{AE}	..... cm
\overline{OU}	..... cm
\overline{AU}	..... cm

2



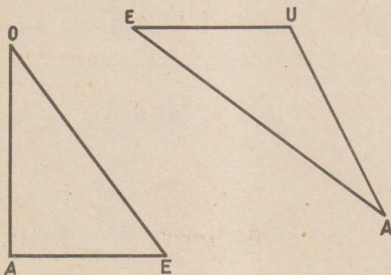
Seite	Länge
\overline{AE}	..... cm
\overline{EO}	..... cm
.....	..... cm
.....	..... cm

3

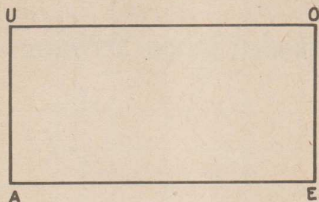


Seite	Länge
.....	..... cm
.....	..... cm
.....	..... cm
.....	..... cm

4



Seite	Länge
\overline{AE}	..... cm
\overline{EO}	..... cm
\overline{AO}	..... cm
\overline{EU}	..... cm
\overline{UA}	..... cm
\overline{EA}	..... cm



links von – rechts von

1

U liegt von O.
 E liegt von A.
 O liegt rechts von
 A liegt links von

über – unter

2

O liegt E.
 A liegt U.
 E liegt unter
 U liegt über

links – rechts

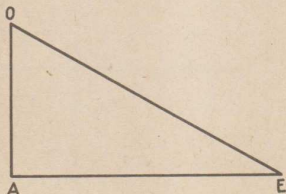
3

\overline{AU} liegt
 liegt rechts.

oben – unten

4

\overline{AE} liegt
 \overline{UO} liegt



A liegt von E.
 E liegt von A.
 O liegt A.
 A liegt O.

5

1 Zeichne zwei verschieden lange Strecken!

2 Zeichne zwei gleich lange Strecken!

3 Zeichne drei verschieden lange Strecken!

Zeichne drei gleich lange Strecken!

1

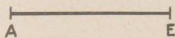
Zeichne drei Strecken! Zwei davon sollen gleich lang sein.

2

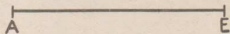
Zeichne drei verschiedene Dreiecke!

3

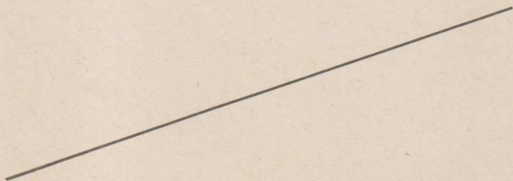
1 Zeichne über \overline{AE} ein Quadrat!



2 Zeichne über \overline{AE} ein Rechteck!



3 Zeichne ein Rechteck! Eine Seite des Rechtecks liegt auf der Geraden.



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