



---

		5
1.	e	7
2.		18
3.		33
4.		41
1.	e	51
2.		75
3.		108
4.		126



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286

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9. , 2024 .

1.

1.

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46
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9
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3
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29
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646 293.

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2.

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99
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5
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3
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55
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)

3.

321	
154	
48	

263?

4.

38	
217	
404	

555?

5. :

)  $330 - 230 : 5 \cdot 4$

)  $100 : 4 + 6 \cdot (20 - 8) : 2$ .

6. :

$$(1000 - 995) + (990 - 985) + \dots + (20 - 15) + (10 - 5).$$

7.

$$A = (1000 - 996) + (992 - 988) + \dots + (16 - 12) + (8 - 4).$$

8. 30

9. 7, 2, 4. -

17? ( .)

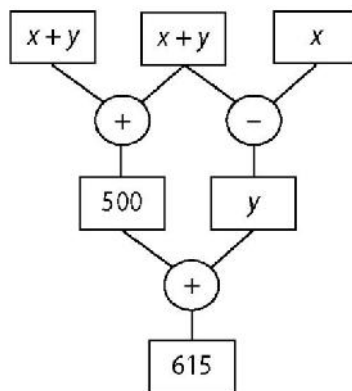
10. 8, 2, 4, 5

? -

2, 4, 5 8,

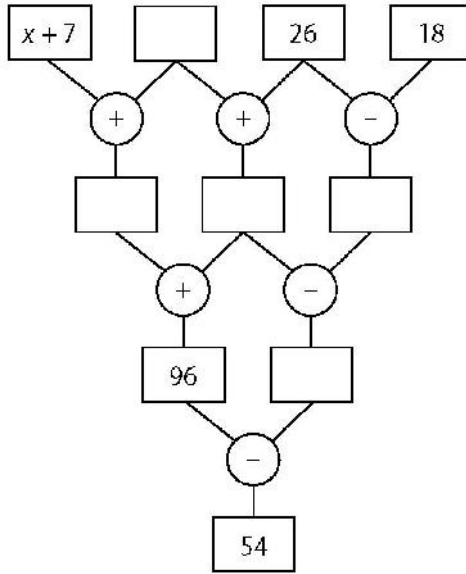
?

11. й x.



12. й x.





13.  $a - b - c = 1576$ .  
 $a, b, c = 576?$

14.  $7777777 = 700$   
 $\quad \quad \quad + \quad -$   
 $\quad \quad \quad \cdot$

15.  $( \quad )$   
 $\quad \quad \quad \cdot \clubsuit \clubsuit + \clubsuit \heartsuit \clubsuit + \clubsuit \clubsuit \heartsuit = 555$ .

16.  $( \quad )$   
 $\quad \quad \quad \heartsuit \clubsuit \clubsuit + \clubsuit \heartsuit \clubsuit + \clubsuit \clubsuit \heartsuit = 888$ .

17.  $\overline{AA} \cdot A = \overline{27A}$ .  $A$

18.  $( \quad )$   
 $\quad \quad \quad : 37 \cdot A = \overline{BBB}$ .

19.

$$: 5^{**} - 4^{**} = 5.$$

20.

$$5^{**} + 4^{**} = 905 \quad -$$

21.

:

$$\overline{7^{*}} + \overline{**6} + \overline{*59} = 2014.$$

22.

:

$$) \quad ***. * - ** = 1,$$

$$) \quad ** + ** = 198,$$

$$) \quad *1 \cdot * = 9 + *.$$

23.

:

$$) \quad \overline{2^{**}} : \overline{*2} = \overline{2^{*}},$$

$$) \quad \overline{3^{**}} : \overline{*3} = \overline{3^{*}}.$$

24.

$A, B, C, D$

(

,

)

:

$$A + A = B, B + B = \overline{CD}, A + B + D = \overline{CB}.$$

25.

$A, B, C$

(

,

)

$$\overline{AB} + \overline{BA} = \overline{CC}, \quad A + B + C = \overline{AB}.$$

26.

1 9 (

-

)

:

$$\overline{AB} \cdot C = \overline{DE}, \quad \overline{DE} + \overline{FG} = \overline{HI}.$$

27.

(

)

---


$$\overline{AB} \cdot C = \overline{DE}, \quad \overline{FG} \cdot H = \overline{IJ}.$$

28. ( , )

$$\overline{MA} \cdot \overline{MA} = \overline{MIR},$$

$$\overline{AM} \cdot \overline{AM} = \overline{RIM}.$$

29.  $\overline{KU} + \overline{KU} + \overline{RI} + \overline{KU} ?$

30.  $A + \overline{BB} + A = \overline{CCC},$

31. )

$$\overline{AB} \cdot C = \overline{DE}, \quad \overline{FG} \cdot H = \overline{IJ}$$

( )

)

$$A + B = \overline{CD}, \quad E + F = G, \quad H + I = J$$

( )

32. ( , )

$$\overline{SIN} + \overline{NOS} = 353.$$

33.  $N * O * V * I = S * A * D$

34.  $\overline{SNEG} + \overline{KRUG} = \overline{SPORT},$  -

35.

$$:\overline{ONE} + \overline{ONE} = \overline{TWO},$$

36.

$$(\overline{TWO} + \overline{TWO} = \overline{FOUR}).$$

37.

$$\underline{\quad} + \underline{\quad} = \underline{\quad},$$

38.

39.

20,

50.

40.

41.

42.



43.

$\frac{3}{11}$ .

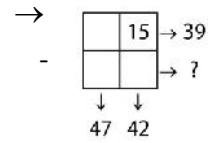


)  $\frac{1}{2}$ ,      )  $\frac{1}{3}$ ,      )  $\frac{1}{6}$ .

44.

↓.

?



45.

)

(

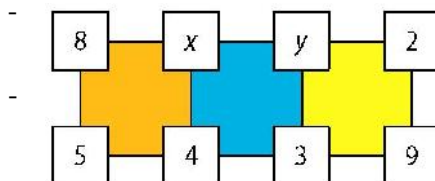
♥	♥	♥	24
♣	★	♣	17
♣	★	♥	?
?	?	21	

46.

♥	★	♥	🌻	20
♣	★	🌻	♥	?
★	★	★	🌻	26
🌻	★	♥	♣	?
♣	★	♣	♥	25
?	40	?	?	

47.

x y



48.

30.

			5											3		
--	--	--	---	--	--	--	--	--	--	--	--	--	--	---	--	--

49.

750.

	75														5	
--	----	--	--	--	--	--	--	--	--	--	--	--	--	--	---	--

50.

15.

	5															1		
--	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	--	--

51.

15.

2							
		4					
						3	
				7			

52.

	1	96			10	32	
	3		8	25	5		
	14	10		9		45	6
20	5	2	3		78	7	
	2					4	

14 · 10,

8 · 3.

210.

546.

)  
)  
)

?

53.

			77	6			2	3
		9	1	20	5		7	50
	5	80	2		3	2	40	3
	90	1		2	60	5	1	
	2						79	

)  
)  
)

720.

720.

?

54.

,

	18	35	20	14
16				
49				
25				
9				

:

55. 6

:  $6 = 2 \cdot 3$ ,  $6 = 2 \cdot 1 \cdot 3$ ,  $6 = 6 \cdot 1 \cdot 1$ ,  $6 = 2 \cdot 3 \cdot 1 \cdot 1$

:

	800	180	10	400	1000
600	5	6	2		
750					5
20		5	20		20
80	40		40	8	

56.

4

?

57.

9

?

58.  $n$  26  $n$   
2.

59. 350.

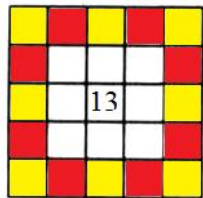
60. 1, 5, 9, 13, 17, 21, ...

61. 2, 6, 18, 54, 162, ... -

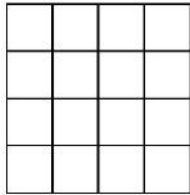
62. 2, 6, 14, 30, 62, ...

63. : 92,  
83, 74, 65, 56, ...

64. 8, 13.



65. 2, 4, 6 8 ( )



66. , ...





---

67.

, . .

105		127
	142	

,

.

68.

345.

246

69.

1000?

:

1000

70.

1000?

:

810?

700

2.

1.

39.

2.

97.

?

3.

100

397.  
800.

?

4.

158.

120.

?

,

,

-

5.

68.

84.

?

,

,

-

6.

2

9,

4

a e

7.

800.

7.

8

3,

e

2

8

6

7. a

955.

?

8.

x

250

x.

x.

9.

x

360

-

- 
10.  $x.$   $x.$   $765.$   
 $10$   $10.$   
 $?$
11.  $45.$   $100.$   $,$   
 $?$   $,$
12.  $253,$   $328$   $219.$
13.  $245,$   $,$   $220,$   $,$   
 $207,$   $,$   $228.$
14.  $5,$   $192.$
15.  $300,$   $35.$
16.  $485.$   
 $15$   $5.$   $.$
17.  $720.$   $-$   
 $.$   $.$
18.  $180,$   $.$   $.$
19.  $900.$   $250,$   
 $115,$   $65,$   
 $.$   $?$
20.  $5$   $405$   
 $8.$   $.$
21.  $506,$
-

- 
- 56, 11250  
?
22. 500, 1000, 555.  
?
23. 150, 2,  
6., 5.
24. , 13
25. 111 ?
26. -  
1 23,  
2 32.  
?
27. 1 31,  
2 28.  
?
28. 45 62  
( 1), ( 2).  
?
29. , 25,  
, 39.  
?

---

30. 55 ? -

31. (1, 3, 5, ...).

23 ?

32. 63 , 145 ,  
300 .  
?

33. , . -  
, , .  
50 .  
?

34. 750 .  
,

35. 46 3 90  
, 5 ?

36. 5 125 . “ :” -  
:” , 9 “ 175 -  
“ 7 ? -

37. , 2000 -  
. ,  
, ? .

38. 2 4 , 4  
2 .

- 
- 240 60 , -  
 , ?
39. , 550 -  
 330 ,  
 420 .  
 ?
40. 1 3 110 , 7 1 370  
 , , ?
41. ,  
 350 . ?
42. 4 2 330 ,  
 3 3 300 .  
 , ?
43. 450 .  
 , ,  
 ?
44. 2 3 510 , 3 2  
 465 , ,  
 ?
45. , 750 .  
 135 , 240 , 75  
 , .  
 ?
46. 875 .  
 230 , 245 ,  
 , ?

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47.

1200

?

48.

600

?

49.

8

1

215

1

5

100

?

50.

650

130

?

51.

750

300

?

52.

3

?

53.

825

$\frac{1}{3}$

$\frac{1}{5}$

,

?

54.

$\frac{1}{4}$

238

$\frac{1}{7}$

?

55.

: „

---

, 5700 .“  
 „ 6000 .“  
 ?  
 !  
 56. , , , 600 -  
 . 299 , 248 , 304 , ?  
 149 . ?  
 ?  
 57. , 2  
 17:30 8 40 .  
 ?  
 58. 18:00 16:00. -  
 - , 2 40  
 ?  
 59. 10 .  
 2 , 6 .  
 ?  
 60. 3 20 .  
 2 20 . 2  
 ?  
 61. , 4 , . 10  
 . , ?  
 ?  
 62. 50 . 45 , 4 -  
 . -  
 ?



---

63.



?

64.

20:16.

9

56 .

65.

15 17 .

?

66.

21 cm -

?

67.

96 cm -

?

68.

1 cm ,

1 dm ,

1 m .

)

3

?

)

40

?

:

) 95

1

?

) 10

1

?

69.

8

424 km .

4 -

5 .

?

70.

240 km .

$\frac{1}{5}$

13 km .

?

71.

85 km .

72.

360 km .

$\frac{1}{10}$

15 km

$\frac{1}{5}$

20 km .

?

73.

5

A

B

54

9

B

A

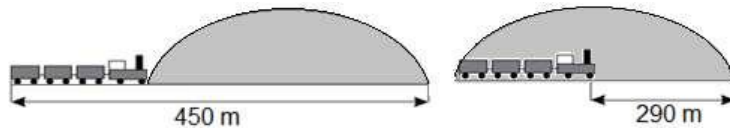
A

B

600

?

74.



75.

150 ml

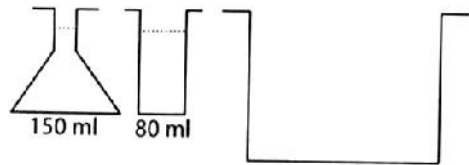
80 ml

:

) 600 ml ,

) 10 ml ,

) 520 ml .



76.

170 ml

60 ml

A

:

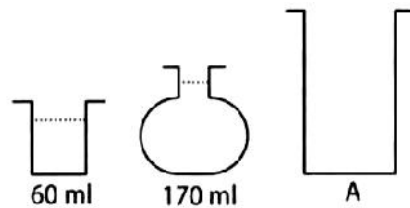
) 510 ml ,

) 10 ml ,

) 610 ml ,

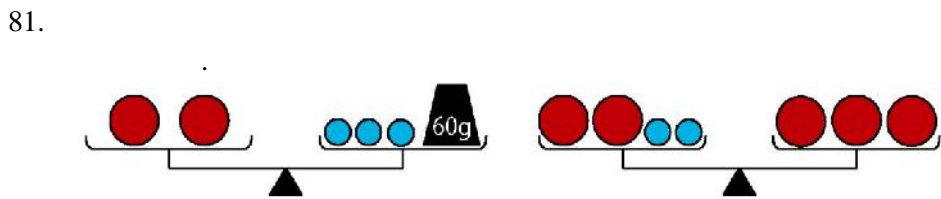
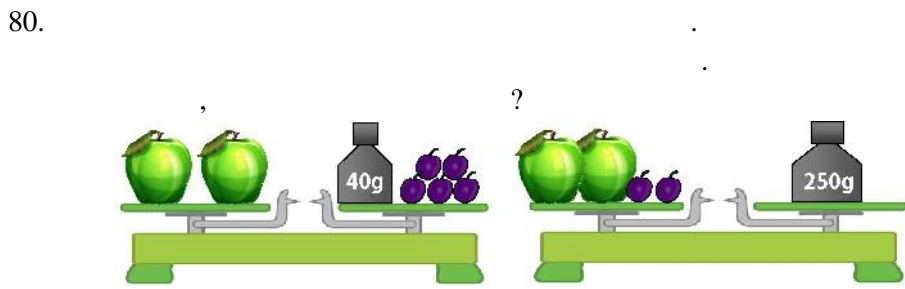
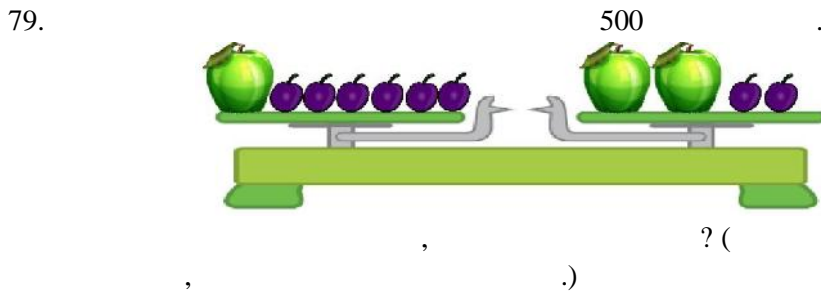
) 270 ml ,

) 710 ml ,



77.  $225 l,$   $82 l,$   
 $350 l$  .  
 ?

78.  $100$  .  $50$  .  $20$



82.  $\frac{1}{10}$  ,  $\frac{1}{3}$  ,  $\frac{1}{5}$  ,  $9000$  , -  
 ?

83.  $3 kg$   $4 kg$   $560$  ,  $6 kg$   
 $2 kg$   $820$  .

84.  $\frac{5}{7} \cdot \frac{2}{?} = 900 \text{ kg}$  . -

85.  $\frac{?}{?} = \frac{?}{?}$  . -

86.  $\frac{?}{?} = \frac{10}{?}$  . -

87.  $\frac{5}{?} = \frac{?}{?}$  . -

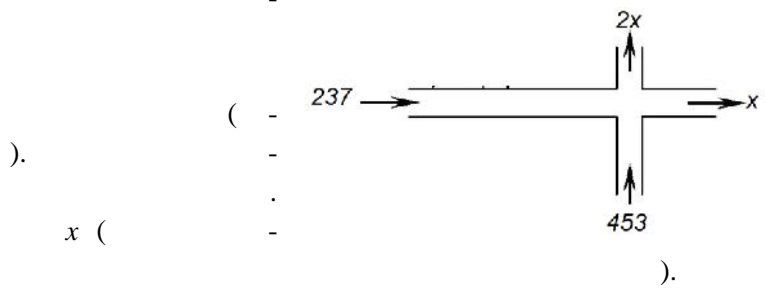
88.  $\frac{8}{?} = \frac{6}{?}$  . -

89.  $\frac{452}{?} = \frac{240}{?}$  . -

90.  $\left( \begin{array}{c} 359 \\ \uparrow \\ \text{---} \\ \uparrow \\ 238 \rightarrow \text{---} \\ \downarrow \\ \text{---} \\ \downarrow \\ 543 \end{array} \right) x$  . -

91.  $x$  ( ) .

91.



92.

980

$\frac{1}{4}$

$\frac{1}{5}$

?

93.

382

?

94.

564

49

?

?

95.

240

96.

80

- 
- ?
97. 180 . ,  
 ? . ,
98. 96 . ,  
 . ?
99. 570 .  $\frac{1}{3}$   
 12 . ?
100. 3 . -  
 . , 78  
 ?
101. 24 . ,  
 ?
102. 450 .  $\frac{1}{9}$   
 ,  $\frac{1}{10}$  , -  
 $\frac{1}{5}$  . ?
103. . , 250  
 . ?
104. 180 .

---

7, 12  
 .  
 ?  
 105. 750 , .  
 , , . -  
 ?  
 106. 78 .  
 7 .  
 ,  
 ?  
 107. 358 , .  
 , .  
 ?  
 108. 376 .  
 257 , -  
 489 . ,  
 , ?  
 109. 9 , .  
 28 . -  
 ?  
 110. 22 , 74 .  
 ?  
 111. 32 , 88 .  
 ?  
 112. .

.....

40      130  
?

113.      .  
80 ,      ?




**3.**

1.  $AB = 2 \text{ cm}$   
 $CD = 3$ ,  
 $AB = 10 \text{ cm}$ ,  
 $AB = CD$ ?

2.  $M$  is the midpoint of  $AB$ .  
 $M$  is the midpoint of  $AB$ .  
 $AB = 4 \text{ cm}$ .  
 $B$  is the midpoint of  $AB$ .

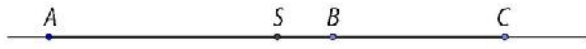
3.  $N$  is the midpoint of  $AB$ .  
 $N$  is the midpoint of  $AB$ .  
 $AB = 15 \text{ cm}$ .  
 $A$  is the midpoint of  $AB$ .

4.  $a$  is the midpoint of  $AB$ .  
 $BC = 20 \text{ cm}$ .  
 $N$  is the midpoint of  $BC$ .  
 $AB = BC$ .  
 $\overline{AB} = 32 \text{ cm}$ .  
 $M$  is the midpoint of  $AB$ .  
 $MN$ .

5.  $a$  is the midpoint of  $AB, BC, CD$  ( ).  
 $S$  is the midpoint of  $AB$ .  
 $12 \text{ cm}$  is the length of  $AB$ .  
 $\overline{SB} = 15 \text{ cm}$ ,  
 $BC$  is the length of  $BC$ .  
 $AB, BC, CD$  are collinear.  
 $34 \text{ cm}$  is the length of  $CD$ .  
 $AD$  is the length of  $AD$ .  


6.  $p$  is the midpoint of  $AB, BC, CD$ .  
 $\overline{AB} = 18 \text{ cm}$ ,  $\overline{AC} = 26 \text{ cm}$ ,  $\overline{BD} = 20 \text{ cm}$ .  
 $M$  is the midpoint of  $AB$ .  
 $N$  is the midpoint of  $CD$ .  
 $MN$ .

7.  $p$   $AB, BC, CD.$   $S$   
 $AB,$   $M$   $CD.$   
 $\overline{AB} = 16\text{ cm}, \overline{SC} = 20\text{ cm}$   $\overline{BD} = 18\text{ cm},$   
 $BC, CD, MS.$

8.  $a$   $AB$   $BC$  ( $\quad$ ).  $-$   
 $AB$   $22\text{ cm}$   $BC.$   $\overline{AC} = 90\text{ cm},$   
 $S$   $-$   
 $AC,$    
 $-$   
 $SB.$

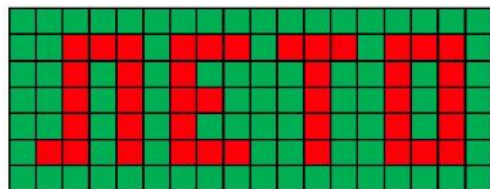
9.  $p$   $A, B, C, D.$   $M$   
 $AB,$   $N$   $CD.$   $\overline{BC} = 15\text{ cm},$   
 $\overline{MN} = 32\text{ cm},$   $AD.$

10.  $A, B$   $C$   $B$   $A$   $C.$   
 $S_1$   $S_2$   $AB$   $BC.$   
 $\overline{AB} = 8\text{ cm}$   $\overline{AC} = 17\text{ cm } 6\text{ mm}$   
 $S_1S_2$   $AS_2.$

11.  $A, B, C$   $D$   $B$   $A$   $C,$   $C$   
 $B$   $D.$   $S_1$   $S_2$   $AB$   
 $CD.$   $\overline{AB} = 16\text{ cm}, \overline{AC} = 5\text{ dm } 6\text{ mm}$   $\overline{CD} = 12\text{ cm } 8\text{ mm}$   
 $S_1S_2.$

12.  $34\text{ cm.}$   
 $3\text{ cm},$   $3\text{ cm},$   $2\text{ cm},$

13.



41

88 cm .

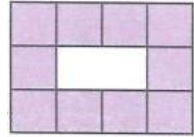
14.

2 cm .

?

15.

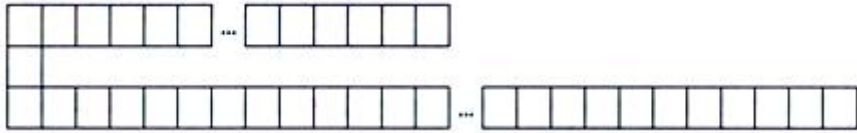
1 dm .



16.

100

1 m 2 dm .



17.

36 cm .

4 cm

18.

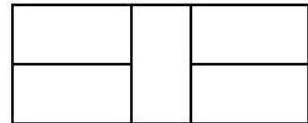
1 km

25

4 m .

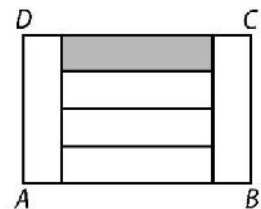
19.

12 cm .



20.

ABCD ,



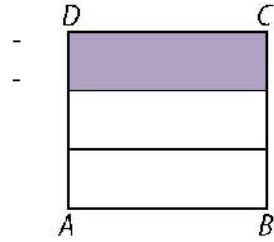
20 cm ,

ABCD .

21.

ABCD ( ).

56 cm .  
ABCD .



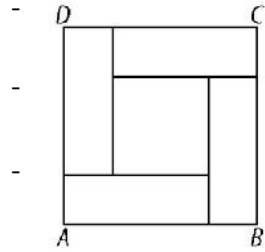
22.

ABCD

4

80 cm ( ).

ABCD .



23.

3 cm 7 cm

?

24.

6 cm

2

2 cm ,

?

25.

5m

4

?

cm

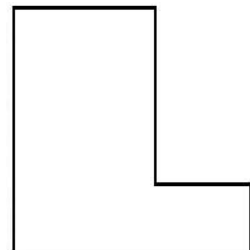
26.

96 cm.

27.

174 cm

67 cm 125 cm



28.

10 cm    15 cm .

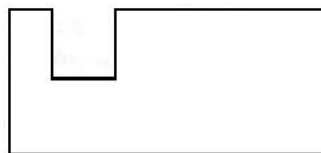
-  
-

8 cm .

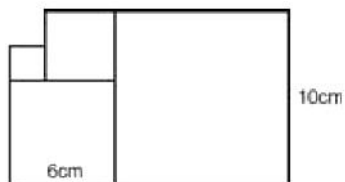
29.

309 cm    112 cm

57 cm



30.



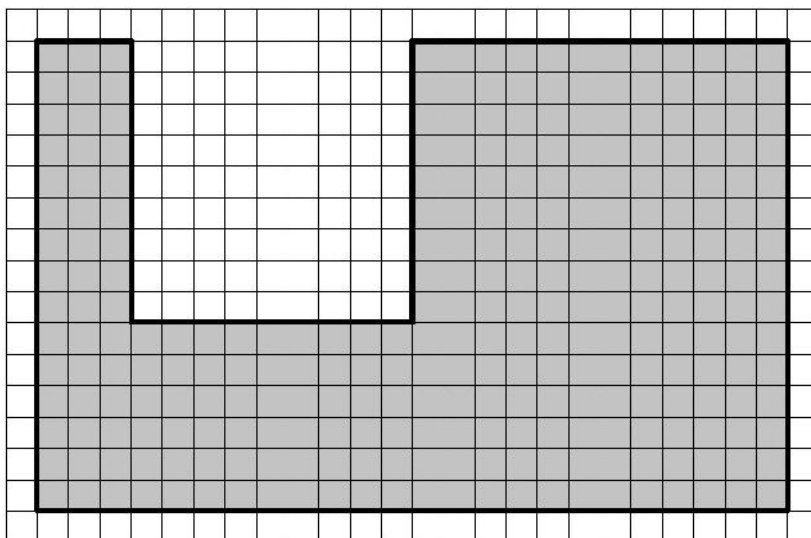
31.

5 cm .

1 m .

32.

1 cm

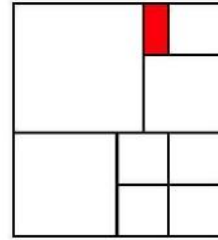


33.

8

1 cm.

2 cm

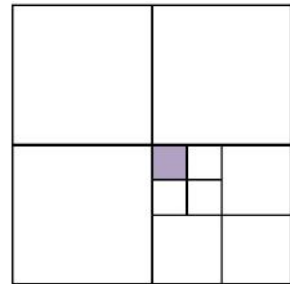


34.

10

( )

64 cm.



35.

$m$

$A, B, C$

$p$

$m$

$D, E$

)

$A, B, C, D, E$

)

$A, B, C, D, E$

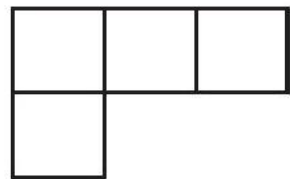
36.

)

)

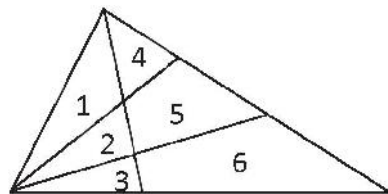
)

?



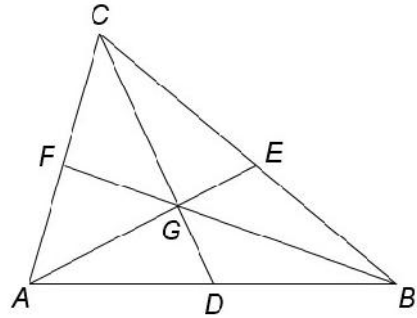
37.

?



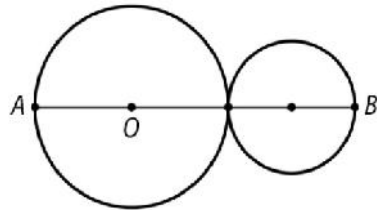
38.

! ?



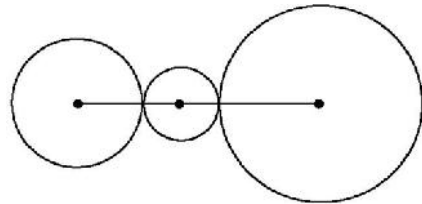
39.

,  
 $\overline{AB} = 18 \text{ cm}$ ,  
 $\overline{OB} = 13 \text{ cm}$ .



40.

,  
 $24 \text{ cm}$ ,  
 $14 \text{ cm}$ .



41.

)  $O$   
 $5 \text{ cm}$ .  
 )  $a$   $b$ ,  
 )  $c$   $a$ ,  $b$   
 )  $b$   $c$ ?

42.

$O$   $6 \text{ cm}$ .  
 $Oa$   $C$   
 $Oa$   
 $OC$ ?  
 $B$ .

$b$   $B$   $O.$   
 $b$  ? .

?

43. ,  
 . ( )  
 ), 3 4 .  
 4  
 :  
 ) ,  
 ) ,  
 ) 6 ?

44. 7 .  
 ,

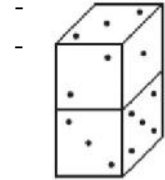


4.

1.

7.

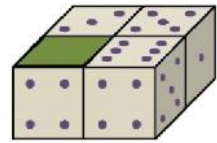
?



2.

( )

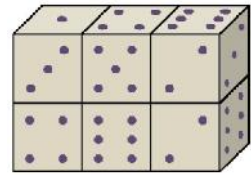
9?



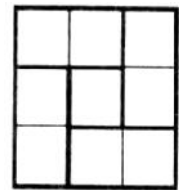
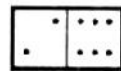
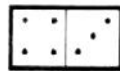
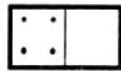
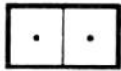
3.

7.

?



4.



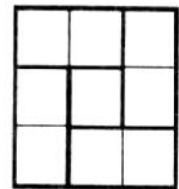
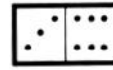
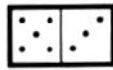
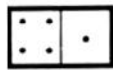
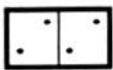
”

“

”

“

5.



”

“

”

“

10.

6.

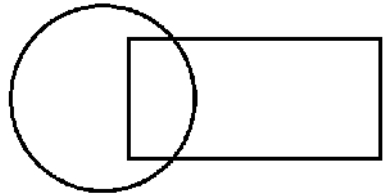


7.

?

8.

252, 452, 750, 506, 138, 345,  
 738 425  
 450,  
 550.



9.

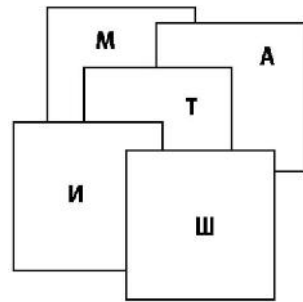
62145, 3562. 12345, ?

10.

).

?

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11.

?

12.

- 99 . 42  
 ?

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13. ,  
,  
29- ?  
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14. ,  
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15. 3 5 -  
2 , 2 -  
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16. , ,  
: , , .  
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17. , , , -  
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18. , , 4. ; 21. ;  
28. 28. .  
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19. , , , ,  
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20.

- 1)
- 2)
- 3)

21.

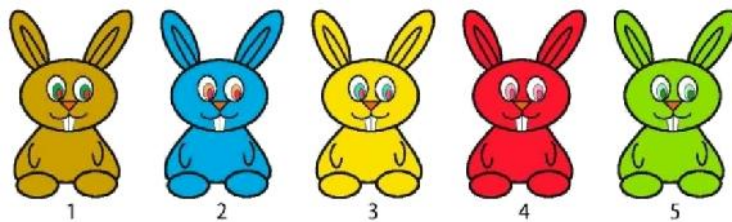
- 1)
- 2)
- 3)

22.

5, 1, 4, 3, 2.  
1, 2, 3, 4, 5?

23.

1, 2, 3, 4, 5 ( )



24. 7 . 5 , 8  
 . ? 7

25. 9 , 50  
 200 . ? -  
 2

26. 9 , 200 .  
 2 ?

27. 24 9 15 .

28. 7 5 2  
 . , -  
 . ?

29. 20 11  
 .  
 :  
 ) ,  
 ) .

30. 11 , 12 20  
 . ,  
 ,  
 :  
 ) ,  
 ) ,  
 ) .

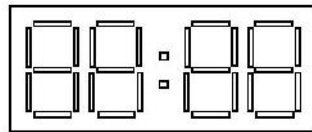
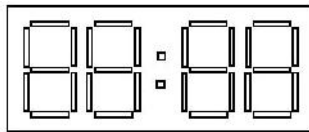
31. 5 1, 2,  
 3, 4, 5, . 2  
 : „ -

“ ?

32. 5 , 3 ,  
100 .  
500 ?

33. 4 . 5  
15 . ,  
100 ?

34. ( ).  
: 8 15 8  
41 ?



35. 4. -

36. 5.

37. 27.

38. 16.

39. 10 ,

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40.

14

,

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41.

,

5?

42.

9

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43.

11

,

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44.

18

-

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45.

36

.

46.

1000

24.

47.

888

23.

48.

,

.

?(

.)

49.

:

3,

3?

.

50.

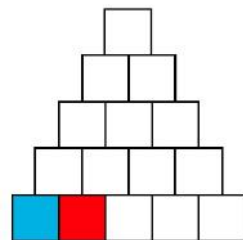
?

100.

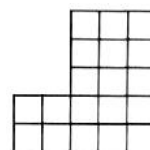
51.

4?

52.



53.



54.

3



1 cm,

8 cm.

)

4

?

)

1 cm.

55.

?

1 cm.

56.



)

)

)



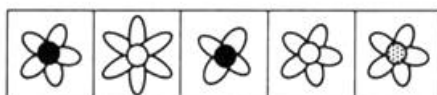
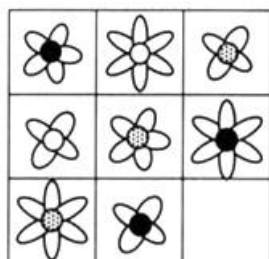
57.

-  
-  
-

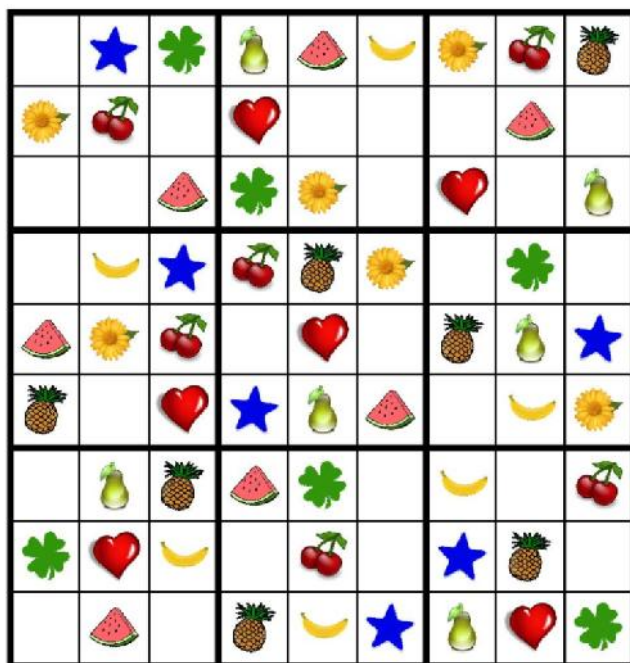
, ,  
:



58.



59.





1.

1.

( )

$$\begin{array}{r} \text{46} \\ \text{9} \\ \text{3} \\ \text{29} \end{array}$$

646 293.

)

)

?)

8

: 469 329, 469 293, 466 329, 466 293, 946 329, 946 293, 646 329, 646 293, 8

: 299

463, 299 346, 296 463, 296 346, 929 463, 929 346, 629 463, 629 346.

)

946 293, . . . 946 - 293 = 653

299 346, . . . 346 - 299 = 47 .

2.

( )

$$\begin{array}{r} \text{99} \\ \text{5} \\ \text{3} \\ \text{55} \end{array}$$

)

)

?)

12 : 995

355, 995 553, 665 355, 665 553, 599 355, 599 553, 566 355, 566 553 (

), 993 555, 399 555, 663

555, 366 555 (

).

)  $995 - 355 = 640$ ,  
 $566 - 553 = 13$ .

3.

321	
154	
48	

263?

263

4.

38	
217	
404	

555?

555

5.

)  $330 - 230 : 5 \cdot 4$

)  $100 : 4 + 6 \cdot (20 - 8) : 2$ .

) :

$330 - 230 : 5 \cdot 4 = 330 - 46 \cdot 4 = 330 - 184 = 146$ .

) :

$100 : 4 + 6 \cdot (20 - 8) : 2 = 25 + 6 \cdot 12 : 2 = 25 + 72 : 2 = 25 + 36 = 61$ .

6.

:

$(1000 - 995) + (990 - 985) + \dots + (20 - 15) + (10 - 5)$ .

---

5.

$$1000 : 5 = 200 ,$$

$$200 : 2 = 100$$

,

$$(1000 - 995) + (990 - 985) + \dots + (20 - 15) + (10 - 5) = 100 \cdot 5 = 500 .$$

7.

$$A = (1000 - 996) + (992 - 988) + \dots + (16 - 12) + (8 - 4) .$$

4.

$$1000 : 4 = 250$$

4,

$$250 : 2 = 125 .$$

$$A = (1000 - 996) + (992 - 988) + \dots + (16 - 12) + (8 - 4)$$

$$= 125 \cdot 4 = 500 .$$

8.

30

30 : 1, 3, 5, 7, ..., 55, 57, 59.

....

$$1 + 59 = 3 + 57 = \dots = 29 + 31 = 60$$

$$1 + 3 + 5 + \dots + 55 + 57 + 59 = (1 + 59) + (3 + 57) + \dots + (29 + 31)$$

$$= 15 \cdot 60 = 900 .$$

9.

7, 2, 4.

1

17? ( )

2 1,

7,

4. ,  $(1+2) \cdot 7 - 4 = 17 .$

10.

8, ?

2, 4, 5

2, 4, 5 8,

?

2458.

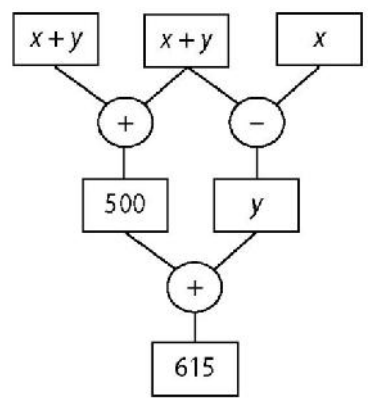
5,

8425.

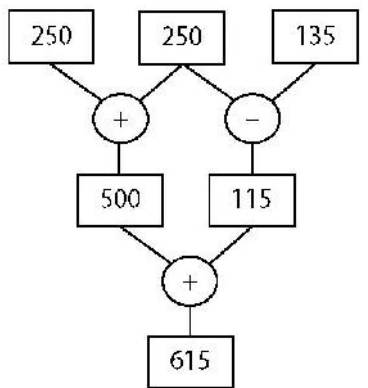
11.

й

x.



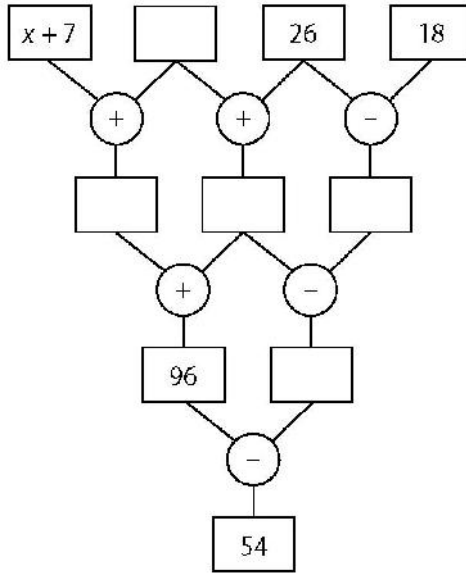
$500 + y = 615$ ,  $y = 615 - 500 = 115$ .  
 $(x + y) + (x + y) = 500$ ,  $x + y = 250$ .  
 $x + y = 250$   $y = 115$   $x = 250 - 115 = 135$ .



12.

й

x.



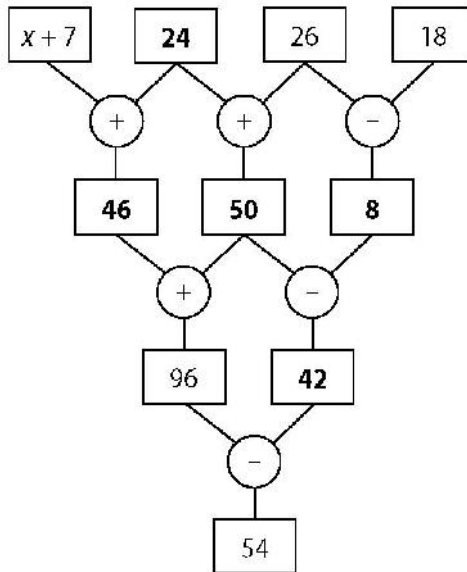
$$96 - 54 = 42.$$

$$26 - 18 = 8.$$

$$8 + 42 = 50,$$

$$96 - 50 = 46,$$

$$50 - 26 = 24,$$



$$x = 46 - 31,$$

$$x + 7 + 24 = 46,$$

$$x = 15.$$

$$x + 31 = 46.$$

13.  $a - b - c = 1576.$   
 $a, b, c$   $576?$   
 $a - b - c = 1576.$   
 $a = 576$   $576.$   
 $576,$   $b = 576$   
 $576,$   $c = 576$   
 $(a - 576) - (b - 576) - (c - 576) = 1576 - 576 + 576 + 576 = 2152$   
 $2152.$

14.  $777 - 77 + 7 - 7 = 700$   
 $777 - 77 + 7 - 7 = 700.$

15.  $\heartsuit \clubsuit \clubsuit + \heartsuit \clubsuit + \heartsuit \clubsuit \clubsuit = 555.$   
 $2 + 2 + 1 = 3 + 1 + 1 = 5$   
 $\heartsuit = 3, \clubsuit = 1,$   
 $\heartsuit = 1, \clubsuit = 2.$   
 $311 + 131 + 113 = 555 \quad 122 + 212 + 221 = 555.$

16.  $\heartsuit \clubsuit \clubsuit + \heartsuit \clubsuit + \heartsuit \clubsuit \clubsuit = 888.$   
 $8 = 1 + 1 + 6 = 2 + 2 + 4 = 3 + 3 + 2$   
 $\heartsuit = 6, \clubsuit = 1 \quad 611 + 161 + 116 = 888,$   
 $\heartsuit = 4, \clubsuit = 2 \quad 422 + 242 + 224 = 888 \quad \heartsuit = 2, \clubsuit = 3$   
 $233 + 323 + 332 = 888.$

17.  $\overline{AA} \cdot A = \overline{27A}.$



$$A = 5, \quad 0, 1, 5, 6. \quad -$$

$$55 \cdot 5 = 275.$$

18. ( )

$$: 37 \cdot A = \overline{BBB}.$$

3. ,  $37 \cdot 3 = 111$  .

$$37 \cdot 6 = 222$$

2 3.  $37 \cdot 9 = 333.$

19. :  $5^{**} - 4^{**} = 5.$  .

5 500.

500 - 495 = 5 .

4.

:

$501 - 496 = 5, 502 - 497 = 5, 503 - 498 = 5, 504 - 499 = 5.$

20.  $5^{**} + 4^{**} = 905$  -

5 500.

500 + 405 = 905. 500

405, -

4 .

:  $501 + 404 = 905, 502 + 403 = 905,$

$503 + 402 = 905, 504 + 401 = 905, 505 + 400 = 905.$

21. :

$$\overline{7^{*} + **6} + \overline{*59} = 2014.$$

.

9,

$* + 9 + 6 = * + 15$  4. ,

$79 + \overline{**6} + \overline{*59} = 2014,$

2,  $2+5+7+*$  1,  
 7. , -  
 $79 + \overline{*76} + \overline{*59} = 2014.$  , 2  
 20  
 9. ,  $79 + 976 + 959 = 2014.$

22.

:  
 )  $*** \cdot * - ** = 1,$   
 )  $** + ** = 198,$   
 )  $*1 \cdot * = 9 + *.$   
 . ) , -  
 1 100,  
 99. ,  $100 \cdot 1 - 99 = 1.$   
 ) 198. -  
 198 99 99.  
 ,  $99 + 99 = 198.$   
 ) 20.  
 20 1,  
 11. ,  $11 \cdot 1 = 9 + 2.$

23.

:  
 )  $\overline{2**} : \overline{*2} = \overline{2*},$  )  $\overline{3**} : \overline{*3} = \overline{3*}.$   
 . ) , 1,  
 :  
 $240 : 12 = 20, 252 : 12 = 21, 264 : 12 = 22, 276 : 12 = 23, 288 : 12 = 24.$   
 ) , 1,  
 :  $390 : 13 = 30$

24.

$A, B, C, D$  ( )  
 , )  
 :  
 $A + A = B, B + B = \overline{CD}, A + B + D = \overline{CB}.$   
 . .  $A = 1, A = 2, \dots, A = 9$   
 $A = 4, B = 8, C = 1, D = 6.$

$$\begin{aligned}
 & \cdot \quad A+A=B \quad A \leq 4. \quad , \quad B+B=\overline{CD} \quad - \\
 & \quad B \geq 5. \quad , \quad A+A=B \quad A=3 \quad A=4. \\
 A=3 \quad & \quad B=6, \quad \overline{CD}=12, \quad \dots C=1 \quad D=2, \quad - \quad , \\
 & A+B+D=11 \neq 16. \quad A=4 \quad B=8, \quad \overline{CD}=16, \quad \dots \\
 C=1 \quad & D=6, \quad 4+8+6=18
 \end{aligned}$$

25.  $A, B, C$  ( )

$$\overline{AB} + \overline{BA} = \overline{CC}, \quad A+B+C = \overline{AB}.$$

$$\begin{aligned}
 & \cdot \quad A+B \quad 9. \quad , \quad A \quad B \\
 & \quad 0, \quad \overline{AB} \quad \overline{BA} \quad - \\
 & \quad , \quad 7+8+9=24, \\
 A=1 \quad & A=2. \quad , \quad \overline{CC} \quad 33, 44, \dots, 99 \quad (11 \\
 & \quad , \quad A \quad B \\
 \overline{CC} = 22, \quad & \quad \overline{AB} = 11).
 \end{aligned}$$

$$\begin{aligned}
 \overline{AB} = 12, \overline{AB} = 13, \overline{AB} = 14, \overline{AB} = 15, \overline{AB} = 16, \\
 \overline{AB} = 17, 8, \overline{AB} = 21, \overline{AB} = 23, \overline{AB} = 24. \\
 A=1, B=8, C=9.
 \end{aligned}$$

26.  $1 \quad 9$  ( )

$$\overline{AB} \cdot C = \overline{DE}, \quad \overline{DE} + \overline{FG} = \overline{HI}.$$

$$\begin{aligned}
 & \cdot \quad 1, 2, 3 \quad 4, \\
 2, 3 \quad & 4. \quad , \quad B \quad 5, \\
 & 17 \cdot 4 = 68, \quad 68 + 25 = 93.
 \end{aligned}$$

27. ( )

$$\overline{AB} \cdot C = \overline{DE}, \quad \overline{FG} \cdot H = \overline{IJ}.$$

$$15 \cdot 4 = 60, \quad 29 \cdot 3 = 87, \quad 13 \cdot 6 = 78, \quad 45 \cdot 2 = 90.$$

28. ( )

$$\overline{MA} \cdot \overline{MA} = \overline{MIR},$$

$$\overline{AM} \cdot \overline{AM} = \overline{RIM}.$$

$$M = 1, \quad A \leq 3, \quad A = 2, \quad 12 \cdot 12 = 144,$$

$$I \quad R, \quad A = 3, \quad 13 \cdot 13 = 169, \quad 31 \cdot 31 = 961.$$

29.

$$\overline{KU} + \overline{KU} + \overline{RI} + \overline{KU} ?$$

$$K = 9, \quad R = 8.$$

$$U = 7, \quad I = 6, \quad 97 + 97 + 86 + 97 = 377.$$

30.

$$A + \overline{BB} + A = \overline{CCC},$$

$$120, \quad C = 1, \quad A + \overline{BB} + A = 111,$$

$\overline{BB}$

,  $\overline{BB} = 99$

$$111 - 2 \cdot 9 = 93.$$

$$6 + 99 + 6 = 111.$$

31. )

$$\overline{AB} \cdot C = \overline{DE}, \overline{FG} \cdot H = \overline{IJ}$$

( )

)

$$A + B = \overline{CD}, E + F = G, H + I = J$$

( )

. )  $15 \cdot 4 = 60, 29 \cdot 3 = 87.$

)  $4 + 6 = 10, 2 + 7 = 9, 3 + 5 = 8.$

32.

(

)

$$\overline{SIN} + \overline{NOS} = 353.$$

,  $S + N = 3 \quad I + O = 5.$  ,  $S \quad N$

$S = 1, N = 2 \quad S = 2, N = 1.$   $I$

$O \quad S \quad N,$

$I = 0, O = 5 \quad I = 5, O = 0.$  , :

-  $S = 1, N = 2, I = 0, O = 5 \quad 102 + 251 = 353,$

-  $S = 1, N = 2, I = 5, O = 0 \quad 152 + 201 = 353,$

-  $S = 2, N = 1, I = 0, O = 5 \quad 201 + 152 = 353,$

-  $S = 2, N = 1, I = 5, O = 0 \quad 251 + 102 = 353.$

33.

$$N * O * V * I = S * A * D$$

$$\begin{array}{lll}
 1 \cdot 3 \cdot 4 \cdot 0 = 9 - 7 - 2, & 6 \cdot 4 + 3 - 8 = 1 + 2 \cdot 9, & 9 + 8 + 2 + 1 = 4 \cdot 5 + 0, \\
 5 \cdot 0 \cdot 2 \cdot 3 = 9 - 8 - 1, & 3 \cdot 6 + 9 - 0 = 4 \cdot 7 - 1, & 9 + 8 + 3 + 4 = 4 \cdot 6 + 0, \\
 7 \cdot 8 \cdot 9 \cdot 0 = 3 - 2 - 1, & 2 \cdot 5 + 9 - 7 = 3 \cdot 4 + 0, & 9 + 8 + 4 + 5 = 4 \cdot 6 + 2.
 \end{array}$$

34.  $\overline{SNEG} + \overline{KRUG} = \overline{SPORT},$

$$\begin{array}{l}
 1354 + 9274 = 10628, \\
 1792 + 8562 = 10354, \\
 1753 + 8493 = 10246.
 \end{array}$$

35.  $\overline{ONE} + \overline{ONE} = \overline{TWO},$

$$O = 2 \quad O = 4.$$

$$\begin{array}{llll}
 231 + 231 = 462, & 271 + 271 = 542, & 281 + 281 = 562, & 291 + 291 = 582, \\
 206 + 206 = 412, & 216 + 216 = 432, & 236 + 236 = 472, & 286 + 286 = 572, \\
 432 + 432 = 864, & 452 + 452 = 904, & 482 + 482 = 964, & 407 + 407 = 814, \\
 417 + 417 + 834, & 427 + 427 = 854, & 457 + 457 = 914, & 467 + 467 = 934.
 \end{array}$$

36.  $\overline{TWO} + \overline{TWO} = \overline{FOUR}.$

$$\begin{array}{llll}
 734 + 734 = 1468, & 765 + 765 = 1530, & 836 + 836 = 1672, & 846 + 846 = 1692, \\
 867 + 867 = 1734, & 928 + 928 = 1856, & 938 + 938 = 1876.
 \end{array}$$

37.  $\underline{\quad} + \underline{\quad} = \underline{\quad},$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

. , , ,  $\neq 0$  =1 ( 20).  
 19, 1 20).  
 2.  $+1 \geq 10$   $\geq 5$ , 6 8. ,  
 3, 4, 8 9. :  
 643 + 643 = 1286, 638 + 638 = 1276, 648 + 648 = 1296,  
 678 + 678 = 1356, 854 + 854 = 1708, 864 + 864 = 1728,  
 829 + 829 = 1658, 839 + 839 = 1678, 869 + 869 = 1738.

38.

.  
 : IX, XC CM .

39.

50. 20,  
 . , , : XXI, XXV, XXX, XLI, XLV .

40.

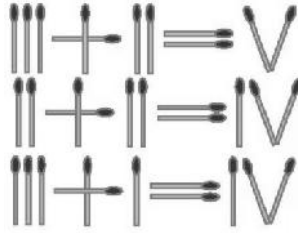
	152	220	800	404	990	121
	CLII	CCXX	DCCC	CDIV	CMXC	CXXI

41.

	150	200	400	505	900
	CL	CC	CD	DV	CM

42.





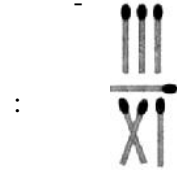
43.

$$\frac{3}{11}$$

$$) \frac{1}{2},$$

$$) \frac{1}{3},$$

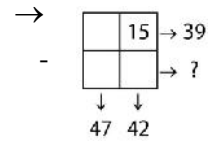
$$) \frac{1}{6}.$$



44.

↓.

?



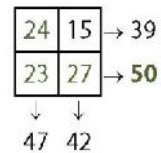
$$47 + 42 - 39 = 50.$$

$$39 - 15 = 24,$$

$$47 - 24 = 23.$$

$$42 - 15 = 27,$$

$$27 + 23 = 50.$$



45.

)

(





















$$\heartsuit = 24 : 3 = 8.$$

			24
			17
			?
?	?	21	



$$\begin{aligned}
 \heartsuit + \clubsuit + \heartsuit &= 21, \\
 \clubsuit + \spadesuit + \clubsuit &= 17, & \spadesuit &= 7 \\
 \clubsuit &= 5. & 8 + 5 + 5 &= 18, \\
 & & 8 + 7 + 7 &= 22 \\
 5 + 7 + 8 &= 20.
 \end{aligned}$$

46.

				20
				?
				26
				?
				25
?	40	?	?	

$$\spadesuit = 40 : 5 = 8.$$

$$\text{flower} = 26 - (8 + 8 + 8) = 26 - 24 = 2.$$

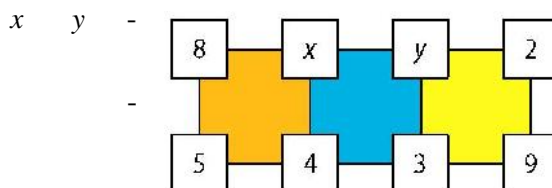
$$\heartsuit + \heartsuit = 20 - (8 + 2) = 20 - 10 = 10, \dots \heartsuit = 10 : 2 = 5.$$

$$\clubsuit + \clubsuit = 25 - (8 + 5) = 25 - 13 = 12, \dots \clubsuit = 12 : 2 = 6.$$

: 20, 21, 26, 21, 25,

: 27, 40, 26, 20.

47.



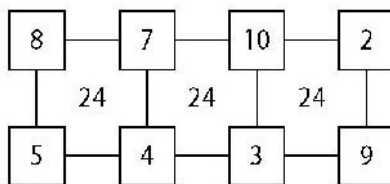
$$8+5+4+x = x+4+3+y,$$

$$13=3+y, \quad y=10.$$

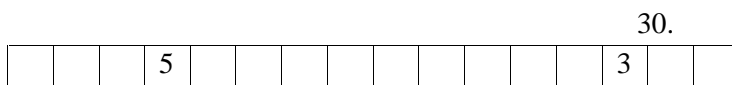
$$8+5+4+x = 10+3+9+2,$$

$$17+x = 24,$$

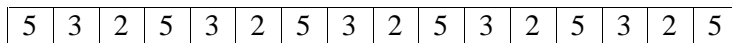
$$x = 7.$$



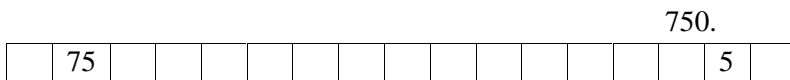
48.



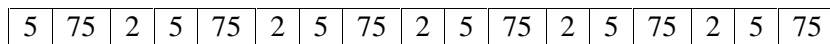
1 6, 6, 2 3, 1, 5 6, 3, 2, 3 5.



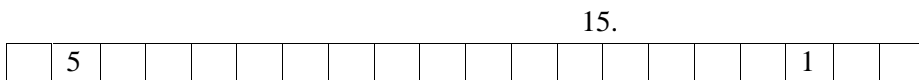
49.



1 10, 10, 2 5, 1, 10 75, 5, 2, 5 75.



50.



1 5,

$$15 - (1 + 5) = 9.$$

9	5	1	9	5	1	9	5	1	9	5	1	9	5	1	9	5	1	9	5
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

51.

15.

2								
		4						
							3	
					7			

2		7	2		7	2		7
		4			4			4
	3			3			3	
2		7	2		7	2		7

6, 15 2 7  
4 7 4. ,

2	6	7	2	6	7	2	6	7
5	6	4	5	6	4	5	6	4
8	3	4	8	3	4	8	3	4
2	6	7	2	6	7	2	6	7

52.

	1	96				10	32	
	3		8	25	5			
	14	10		9		45	6	
20	5	2	3		78	7		
	2						4	

, 14 · 10, 8 · 3.  
 ) 210.  
 ) 546.  
 )  
 ?

. ) 3, 14 5, (3 · 14) · 5 = 42 · 5 = 210.  
 ) 78 7, 78 · 7 = 546.  
 ) 1000,  
 8 · 25 · 5 = 1000.

53.

			77	6			2	3
		9	1	20	5		7	50
	5	80	2		3	2	40	3
	90	1		2	60	5	1	
	2						79	

) 720.  
 ) 720.  
 ) ?

. ) 9,80 1, :  
 (9 · 80) · 1 = 702 · 1 = 720.

) 3, 2, 40 3, :  
 ((3 · 2) · 40) · 3 = (6 · 40) · 3 = 240 · 3 = 720.

) 900  
 :  
 900 = 5 · 90 · 2 = 5 · 3 · 60 = 9 · 1 · 20 · 5.

54.

	18	35	20	14
16				
49				
25				
9				

. 49 = 7 · 7 · 1 · 1 25 = 5 · 5 · 1 · 1, 18, 35,  
 20 14 35 14 7, 35 20 5,  
 :

	18	35	20	14
16				
49	1	7	1	7
25	1	5	5	1
9				

,  
 - 1, 7, 5 1,  
 9 20 1  
 - 4, 1, 5 1. ,  
 2, 7, 1 1. ,  
 - 2, 1, 1 9  
 :

	18	35	20	14
16	2	1	4	2
49	1	7	1	7
25	1	5	5	1
9	9	1	1	1

55. 6  
 , :  $6 = 2 \cdot 3$ ,  $6 = 2 \cdot 1 \cdot 3$ ,  $6 = 6 \cdot 1 \cdot 1$ ,  $6 = 2 \cdot 3 \cdot 1 \cdot 1$  .  
 :

	800	180	10	400	1000
600	5	6	2		
750					5
20		5	20		20
80	40		40	8	

.  
 $80 : 40 = 2$      $40 : 8 = 5$ ,  
 $20 : 5 = 4$      $20 : 20 = 1$ .  
 $800 : (5 \cdot 4 \cdot 40) = 1$ ,  
 -

$$180 : (6 \cdot 5 \cdot 2) = 3,$$

$$10.$$

$$10 : 2 = 5$$

$$5 \cdot 2.$$

	800	180	10	400	1000
600	5	6	2	5	2
750	1	3	5	10	5
20	4	5	20	1	20
80	40	2	40	8	5

56.

4

?

1,

$0 \cdot 4 + 1 = 1.$

0 0 1,

$0 \cdot 4 + 2 = 2$   $1 \cdot 5 + 2 = 6.$  3,

0 1 2,  $0 \cdot 4 + 3 = 3,$

$1 \cdot 4 + 3 = 7$   $2 \cdot 4 + 3 = 11.$  , 1, 2, 3, 6, 7

11, . .

57.

9 -

?

1,

9

8,

$9 \cdot 7 + 8 = 71$  9

0,

7,

58.

$n$  26  $n$

2.

26  $n$

2,  $26 - 2 = 24,$

26.  $24 : 1, 2, 3, 4, 6, 8,$   
 $12, 24,$   $1, 2$   $26.$   
 $3, 4, 6, 8, 12, 24,$   $:$   
 $3+4+6+8+12+24=57.$

59.

$350.$   
 $350 = 1 \cdot 350 = 2 \cdot 175 = 5 \cdot 70 = 7 \cdot 50 = 10 \cdot 35 = 14 \cdot 25.$   
 $1+350=351, 2+175=177, 5+70=75,$   
 $7+50=57, 10+35=45, 14+25=39.$   
 $350, 351, -$   
 $39.$

60.

$1, 5, 9, 13, 17, 21, \dots$   
 $4 = 5 - 1 = 9 - 5 = 13 - 9 = 17 - 13 = 21 - 17.$   
 $4.$   
 $21+4=25, 25+4=29.$

61.

$2, 6, 18, 54, 162, \dots$   
 $6 = 2 \cdot 3, 18 = 6 \cdot 3, 54 = 18 \cdot 3, 162 = 54 \cdot 3 \dots$   
 $3.$   $162 \cdot 3 = 486$   
 $486 \cdot 3 = 1458.$

62.

$2, 6, 14, 30, 62, \dots$   
 $6 = 2 \cdot 2 + 2, 14 = 2 \cdot 6 + 2, 30 = 2 \cdot 14 + 2, 62 = 2 \cdot 30 + 2.$   
 $2$   $2.$   $,$   
 $2 \cdot 62 + 2 = 126, 2 \cdot 126 + 2 = 254.$

63.

83, 74, 65, 56, ...

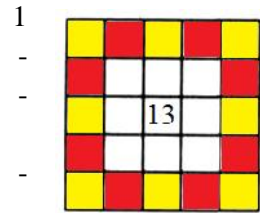
: 92,

$$\begin{aligned}
 & 47, 38, 29, 20, 11 \quad 2. \\
 & 20 \quad 11, \quad 29 \\
 & 47. \quad : \\
 & 11 + 20 + 29 + 47 = 107.
 \end{aligned}$$

64.

8,

13.



$$1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 = 36.$$

13,

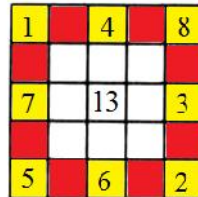
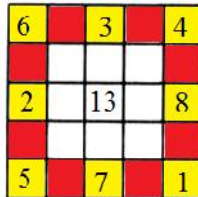
$$4 \cdot 13 = 52.$$

$$2 \cdot 36 - 52 = 20.$$

$$8 + 4 + 1 = 8 + 3 + 2$$

13

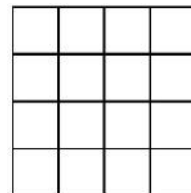
8,



65.

2, 4, 6 8 ( )

20.





20,  $2 + 8 = 4 + 6 = 10$

2	8	8	2
4	6	6	4
6	4	4	6
8	2	2	8

66.

, ...

$15 + 17 - 14 = 18.$

$18 + 15 - 17 = 16,$

$14 + 15 + 16 = 45.$

14		
	15	
	17	

14		18
	15	
	17	16

14	13	18
19	15	11
12	17	16

67.

, ...

$a = b,$

105

$105 + 142 = 127 + b,$

$b = 120.$

127

$a = 164.$

$127 + 142 = 105 + a,$

$164 + 142 + 120 = 426.$

105		127
	142	

105		127
$a$	142	$b$

105	194	127
164	142	120
157	90	179

68.  $345 \div 246 = 1 \text{ R } 99$   
 $345 : 5 = 69$  ,  $246 : 3 = 82$  ,  $345$   
 $345 \quad 82 - 69 = 13$  ,  $246$

69.  $1000 \div 1000 = 1$   
 $1000?$   $1000 \quad 500$  ,  $1000$   
 $500 : 4 = 125$  . ,  $1000 \quad 1000 : 8 = 125$  .  
 $1000$   $1000$

70.  $810 \div 700 = 1 \text{ R } 110$   
 $810?$   $700 \quad 750 : 2 = 350$  ,  $700$   
 $350 : 7 = 50$  .  $810 \quad 810 : 9 = 90$  ,  
 $90 : 3 = 30$  . ,  $50 > 30$   
 $700$

810.

---

2.

1.

$$\begin{array}{l} 39. \\ \cdot \\ (39-1):2=19. \quad , \quad 39, \quad 19+1=20, \quad - \\ 19 \cdot 20 = 380. \end{array}$$

2.

$$\begin{array}{l} 97. \\ ? \\ \cdot \\ (97-1):2=48, \quad 97, \quad 49. \quad , \\ 48, \quad 1 \quad 49. \\ , \quad , \quad 48 \cdot 2 = 96 \quad . \end{array}$$

3.

$$\begin{array}{l} 397. \\ 100 \quad 800. \\ ? \\ \cdot \quad 1 \quad 100 \quad 800:100=8. \\ 397, \\ 397+8=405. \end{array}$$

4.

$$\begin{array}{l} 158. \\ , \quad 120. \quad ? \quad - \\ \cdot \quad 158-120=38 \\ \cdot \quad , \quad 2 \cdot 38 = 76. \quad , \\ 158-76=82. \end{array}$$

5.

$$68. \quad , \quad -$$

84. ?

$(84 - 68) : 2 = 8.$

$68 - 8 = 60.$

6. 2 9, 4 a e

7. 800.

7, 2 9, -

7 o 30, 4

37 -

$800 - 37 = 763.$

7. 8 3, e 2 8

6 7. a 955.

?

8 3,

2

8, 5, 60 100.

6 7

$100 + 60 - 5 = 155$

$955 - 155 = 800.$

8. x 250

x. x.

x x. -

x 250, x

500.

9. x 360 -

x. x. -

x

---

10.  $x \cdot x = 360$ ,  
 $x = 720$ ,  $x = 240$ .

$10 \cdot 10 = 765$ ,  
 $10 \cdot 10 = 1000$ ,  
 $1000 - 765 = 235$ .

11.  $45 \cdot 2 = 90$ ,  
 $100 - 90 = 10$ .

$10 : 2 = 5$ ,  
 $45 - 5 = 40$ .

$x + x + x + x + y + y = 100$ ,  
 $(x + y) + (x + y) + x + x = 100$ ,  
 $45 + 45 + x + x = 100$ ,  
 $x + x = 10$ ,  
 $x = 5$ ,  
 $y = 45 - 5 = 40$ .

12.  $253 + 328 + 219 = 800$ ,  
 $800 : 2 = 400$ ,  
 $400 - 219 = 181$ ,  
 $400 - 328 = 72$ ,  
 $400 - 253 = 147$ .

13.  $245 + 207 + 220 = 672$ ,  
 $672 : 3 = 224$ ,  
 $224 - 220 = 4$ ,  
 $224 - 207 = 17$ ,  
 $224 - 245 = -21$ .

$$245 + 220 + 207 + 228 = 900.$$

$$\begin{aligned} 900 : 3 &= 300, & 300 - 220 &= 80, \\ 300 - 228 &= 72, & 300 - 207 &= 93 \\ 300 - 245 &= 55. \end{aligned}$$

14.  $5x = 192$ .

$$4x = 192, \dots x = 48.$$

$$5 \cdot 48 = 240.$$

15.  $300, 35$ .

$$\begin{aligned} 300 &= 1 \cdot 300 = 2 \cdot 150 = 3 \cdot 100 = 4 \cdot 75 = 5 \cdot 100 \\ &= 6 \cdot 50 = 10 \cdot 30 = 12 \cdot 25 = 15 \cdot 20. \end{aligned}$$

16.  $485, 15, 5$ .

$$15 + 1 = 16$$

$$480 : 16 = 30.$$

$$485 - 30 = 455 = 30 \cdot 15 + 5.$$

17.  $720$ .

$$720 : 3 = 240.$$

$$2 \cdot 240 = 480.$$

18.  $180$ .

$$5x - 3x = 180, \quad 2x = 180.$$

$$, x = 90 \qquad 3 \cdot 90 = 270 \quad 5 \cdot 90 = 450 .$$

19.  $900.$   $250,$

$$\begin{aligned}
 & 115, \qquad 65, \\
 & \cdot \qquad \qquad ? \\
 & \cdot \qquad \qquad 250 \quad 115, \\
 & 250 + 115 = 365, \qquad 65 \\
 & \quad 65. \qquad , \\
 & 900 - 365 + 65 = 600. \\
 & 600 : 3 = 200. \\
 & \qquad 200 + 250 = 450, \quad 200 + 115 = 315 \quad 200 - 65 = 135.
 \end{aligned}$$

20.  $5$   $405$

$$\begin{aligned}
 & \cdot \qquad \qquad 8. \\
 & \cdot \qquad \qquad x, \qquad 8x - 5x = 405. \\
 & \qquad 3x = 405, \qquad x = 405 : 3 = 135.
 \end{aligned}$$

21.  $506,$

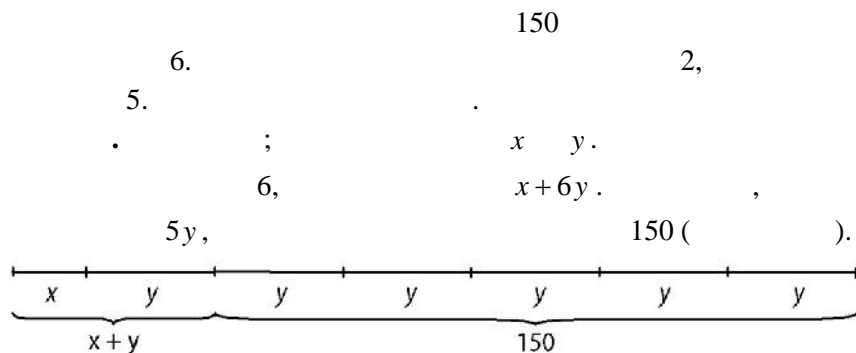
$$\begin{aligned}
 & 56, \qquad 11250 \\
 & \cdot \qquad \qquad ? \\
 & \cdot \qquad x \\
 & \qquad x \cdot 506 - x \cdot 56 = 11250 \\
 & \qquad 450x = 11250 \\
 & \qquad x = 25
 \end{aligned}$$

22.  $500,$

$$\begin{aligned}
 & 1000 \qquad 555. \\
 & ? \\
 & \cdot \qquad \cdot \qquad \qquad x, \\
 & \qquad 1000 - (500 - x) = 555, \\
 & \qquad : \\
 & \qquad 500 - x = 1000 - 555, \\
 & \qquad 500 - x = 445, \\
 & \qquad x = 500 - 445, \\
 & \qquad x = 55. \\
 & \cdot \qquad \qquad 1000 \\
 & 555, \qquad 1000 - 555 = 445.
 \end{aligned}$$

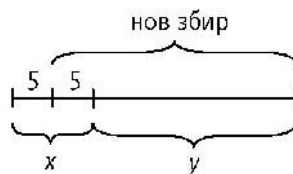
$$500 - 445 = 55.$$

23.



$5y = 150,$   $y = 30.$

$x = 2 \cdot 5 = 10.$



24.

13 13

13, 13.

$100 = 7 \cdot 13 + 9,$

$13 \quad 100 + 4 = 104.$  13

13. 13 104, 114, 130,

143, 156, 169, 182 195. :

$13 \cdot (1 + 0 + 4) = 13 \cdot 5 = 65 \neq 104,$

$13 \cdot (1 + 1 + 7) = 13 \cdot 9 = 117,$

$13 \cdot (1 + 3 + 0) = 13 \cdot 4 = 52 \neq 130,$

$13 \cdot (1 + 4 + 3) = 13 \cdot 8 = 104 \neq 143,$

$13 \cdot (1 + 5 + 6) = 13 \cdot 12 = 156,$

$13 \cdot (1 + 6 + 9) = 13 \cdot 16 = 208 \neq 169,$

$13 \cdot (1 + 8 + 2) = 13 \cdot 11 = 143 \neq 183,$

$13 \cdot (1 + 9 + 5) = 13 \cdot 15 = 195,$



---

117, 156 185.

25.  $111$  ?  
11 9  
90  $111 - 99 = 12$  -  
3  $9 \cdot 1 + 90 \cdot 2 + 12 \cdot 3 = 9 + 180 + 36 = 225$  11  
.

26.  $1$  23,  
2 32.  
?  
1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21 23,  
12 -  
2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30 32,  
16 ,  $12 + 16 = 28$   
.  
1 24 26, 28, 30 32. ,  
 $24 + 4 = 28$  .

27.  $1$  31,  
2 28.  
?  
1 29 31. ,  
 $29 + 1 = 30$  . 9 ,  
 $(30 - 9) \cdot 2 = 42$  . , -  
 $9 + 42 = 51$  .  
1, 3, 5,  
..., 29 31, 16  
 $5 + (16 - 5) \cdot 2 = 27$  . ,  
2, 4, 6, ..., 26 28, 14  
 $4 + (14 - 4) \cdot 2 = 24$  . , -  
 $16 + 14 = 30$

$$27 + 24 = 51$$

28.

45

62

( 1),

( 2).

?

5 80 ( 11 89) 5 ( 1 9) 40

4 ( 2 8) 4 , 90

( 10 98) 45 13 · 3 = 39 ( 100

124)

13

$$5 + 80 + 4 + 90 + 39 = 218$$

29.

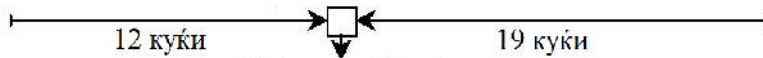
, 25,  
, 39.

?

1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21 23, 12

1, 3, 5, 7, 9, 11, 13, ..., 35 37,

19



Куќата на Марија

$$12 + 1 + 19 = 32$$

30.

55 ?

100

20 , : 5, 15, 25, 35, 45, 50, 51, 52,  
53, 54, 55, 56, 57, 58, 59, 65, 75, 85 95.

100

20

15

205, 215, 225,  
235, 245, 250, 251, 252, 253, 254, 255, 256, 257 258.

31. (1, 3, 5, ...).

23 ?  
 3 15 : 3, 13, 23, 31, 33, 35,  
 37, 39, 43, 53, 63, 73, 83 93. 8  
 : 103, 113, 123, 131, 133, 135 137.  
 137.

137, 69 .

32. 145 ,  
 63 , 300 .  
 ?  
 300 + 145 = 445 ,  
 300 - 63 = 237 , 300 - 145 + 63 = 218 -

33. .  
 , .  
 , 50 .  
 ?  
 50 ,  
 2 · 50 = 100  
 , 100  
 , 200 2 · 100 = 200 .  
 200 .

34. 750 .  
 ,  
 .  
 , 3x . x . , 2x  
 , 2x + 3x = 750, . .

$$5x = 750, \quad x = 150. \quad , \quad 2 \cdot 150 = 300 \quad ,$$

$$3 \cdot 150 = 450 \quad .$$

35.  $46 \quad 3 \quad 90$

$5 \quad ?$

$5 - 3 = 2$

$3$

$5 \quad , \quad 2$

$46 + 90 = 136 \quad . \quad , \quad 136 : 2 = 68 \quad .$

36.  $125 \quad 175$

$5 \quad 9 \quad ?$

$9 - 5 = 4$

$125 + 175 = 300 \quad . \quad , \quad 300 : 4 = 75 \quad .$

$7 \quad 7 \cdot 75 = 525 \quad .$

37.  $2000$

$?$

$2000 : 4 = 500$

$2000 - 500 = 1500$

$1500 : 3 = 500 \quad . \quad , \quad 1500 - 500 = 1000$

38.  $2 \quad 4 \quad 4$

$2 \quad ?$

$240 \quad 60 \quad ,$

$2 \quad 60 \quad 4$

$2 \quad 4 \quad , \quad 2$

$60 \quad 2 \quad , \quad 1$

$$\begin{array}{l}
2 \quad 30 \quad 1 \quad 6 \\
4 \cdot 30 = 120 \quad , \quad 240 \quad , \\
6 \quad 240 - 120 = 120 \quad , \quad 1 \\
120 : 6 = 20 \quad , \quad 1 \\
20 + 30 = 50 \quad . \\
240 \quad , \quad 240 - 60 = 180 \\
2 + 4 = 6 \quad 4 + 2 = 6 \quad - \\
240 + 180 = 420 \quad . \quad , \quad 1 \quad 1 \\
420 : 6 = 70 \quad . \quad , \quad 2 \quad 2 \quad 2 \cdot 70 = 140 \\
2 \quad 4 \quad 240 \quad , \\
2 \quad 240 - 140 = 100 \quad . \quad , \quad 1 \\
100 : 2 = 50 \quad , \quad 1 \quad 70 - 50 = 20 \quad -
\end{array}$$

39. , , 550 -

$$\begin{array}{l}
330 \quad . \\
420 \quad ? \\
550 \quad , \\
330 \quad , \quad 550 - 330 = 220 \quad . \\
420 \quad , \\
420 - 220 = 200 \quad . \\
330 - 200 = 130 \quad .
\end{array}$$

40. 1 3 110 , 7 1 370

$$\begin{array}{l}
, \quad , \quad ? \\
8 \quad 4 \\
110 + 370 = 480 \quad . \quad , \quad 2 \quad 1 \\
, \quad 480 : 4 = 120 \quad . \quad 7 \quad 1 \\
370 \quad , \quad 5 \quad 370 - 120 = 250 \\
, \quad 1 \quad 250 : 5 = 50 \quad . \quad , \quad 2 \quad 1 \\
120 \quad , \quad 1 \quad 120 - 2 \cdot 50 = 20 \quad .
\end{array}$$

41. ,

$$\begin{array}{l}
350 \quad . \quad ?
\end{array}$$

$$350$$

$$350 : 2 = 175$$

$$350 + 175 = 525$$

$$525$$

$$525 : 3 = 175$$

$$525 + 175 = 700$$

$$42. \quad \begin{matrix} 4 \\ 3 \end{matrix}$$

$$2$$

$$330$$

$$3$$

$$3$$

$$300$$

?

$$4$$

$$2$$

$$330$$

$$12$$

$$6$$

$$990$$

$$3$$

$$3$$

$$300$$

$$6$$

$$6$$

$$600$$

$$, 6$$

$$390$$

$$65$$

$$35$$

$$4$$

$$2$$

$$330$$

$$2$$

$$1$$

$$330 : 2 = 165$$

$$3$$

$$3$$

$$300$$

$$1$$

$$1$$

$$300 : 3 = 100$$

$$165 - 100 = 65$$

$$100 - 65 = 35$$

$$43.$$

$$450$$

?

$x$

$$2x$$

$$3x$$

$$2x + 3x = 5x$$

$$, 5x = 450,$$

$$x = 90.$$

$$2 \cdot 90 = 180$$

$$3 \cdot 90 = 270$$

44.  $2 \cdot 465 = 930$ ,  $3 \cdot 510 = 1530$

$930 + 1530 = 2460$

$2460 : 5 = 492$

$492 - 120 = 372$

45.  $750 : 3 = 250$

$250 + 135 - 75 = 310$

$250 + 240 - 135 = 355$

$355 - 310 = 45$

46.  $875 - (230 + 245) = 400$

$400 : 2 = 200$

$200 + 230 = 430$

$200 + 245 = 445$

47.  $1200 = x + 3x$

$1200 = 4x$

$x = 1200 : 4 = 300$

$$3 \cdot 1200 = 3600$$

48. 600

$$\begin{array}{l}
 \cdot \quad \quad \quad ? \\
 \cdot \quad \quad \quad 1 \quad \quad \quad 2 \\
 2 \quad \quad \quad 4 \quad \quad \quad \cdot \quad \quad \quad , 2 \quad \quad \quad 4 \\
 \quad \quad \quad 4 + 4 = 8 \quad \quad \quad \cdot \quad \quad \quad , 2 \quad \quad \quad 4 \\
 \quad \quad \quad 600 \quad \quad \quad , \quad \quad \quad 8 \quad \quad \quad 600 \\
 \quad \quad \quad , 1 \quad \quad \quad 600 : 8 = 75 \quad \quad \quad \cdot \quad \quad \quad , 1 \\
 \quad \quad \quad 2 \quad \quad \quad , \dots \quad \quad \quad 2 \cdot 75 = 150 \quad \quad \quad \cdot
 \end{array}$$

49. 215 , 1 5

$$\begin{array}{l}
 \quad \quad \quad ? \\
 \quad \quad \quad \cdot \quad 8 \quad \quad \quad 1 \quad \quad \quad 215 \quad \quad \quad , \quad 1 \quad - \\
 \quad \quad \quad 5 \quad \quad \quad 100 \quad \quad \quad , \quad \quad \quad 8 + 1 = 9 \\
 1 + 5 = 6 \quad \quad \quad 215 + 100 = 315 \quad \quad \quad \cdot \quad \quad \quad , \\
 9 : 3 = 3 \quad \quad \quad 6 : 3 = 2 \quad \quad \quad 315 : 3 = 105 \quad \quad \quad \cdot \\
 \quad \quad \quad 8 \quad \quad \quad 1 \quad \quad \quad 215 \quad \quad \quad , \\
 8 \cdot 2 = 16 \quad \quad \quad 2 \cdot 1 = 2 \quad \quad \quad 2 \cdot 215 = 430 \quad \quad \quad \cdot \\
 \quad \quad \quad , 16 - 3 = 13 \quad \quad \quad 2 - 2 = 0 \quad \quad \quad 430 - 105 = 325 \\
 \quad \quad \quad , \quad \quad \quad 1 \quad \quad \quad 325 : 13 = 25 \quad \quad \quad \cdot \\
 \quad \quad \quad , 1 \quad \quad \quad 215 - 8 \cdot 25 = 15 \quad \quad \quad \cdot
 \end{array}$$

50. 650 130

$$\begin{array}{l}
 \quad \quad \quad ? \\
 \quad \quad \quad \cdot \quad \quad \quad \cdot \quad \quad \quad 130 \\
 \quad \quad \quad \cdot \quad \quad \quad \cdot \quad \quad \quad , \\
 \quad \quad \quad \cdot \quad \quad \quad \cdot \quad \quad \quad , \\
 130 : 2 = 65 \quad \quad \quad \cdot \\
 \quad \quad \quad \cdot \quad \quad \quad x \quad \quad \quad , \quad \quad \quad x + 130 \quad - \\
 \quad \quad \quad \cdot \quad \quad \quad 650 \quad \quad \quad , \quad \quad \quad x + x + 130 = 650 \quad - \\
 , 2x = 650 - 130 , \dots 2x = 520 \quad \quad \quad , x = 520 : 2 = 260 , \dots \\
 260 , \quad \quad \quad 260 + 130 = 390 \quad \quad \quad \cdot \\
 \quad \quad \quad , \quad \quad \quad 650 : 2 = 325 \quad \quad \quad \cdot \quad \quad \quad , \\
 \quad \quad \quad \quad \quad \quad 325 - 260 = 65 \quad \quad \quad \cdot
 \end{array}$$



51.

$750 \div 300 = 2 \text{ R } 150$   
 $300 \times 2 = 600$   
 $600 + 150 = 750$

52.

$3 + 1 = 4$   
 $4 + 1 = 5$   
 $5 + 1 = 6$   
 $6 + 1 = 7$   
 $7 + 1 = 8$   
 $8 + 1 = 9$   
 $9 + 1 = 10$   
 $10 + 1 = 11$   
 $11 + 1 = 12$   
 $12 + 1 = 13$   
 $13 + 1 = 14$   
 $14 + 1 = 15$   
 $15 + 1 = 16$   
 $16 + 1 = 17$   
 $17 + 1 = 18$

53.

$825 \div \frac{1}{3} = 825 \times 3 = 2475$   
 $825 \div \frac{1}{5} = 825 \times 5 = 4125$   
 $4125 - 2475 = 1650$

54.

$\frac{1}{4} \times 238 = 59.5$   
 $\frac{1}{7} \times 238 = 34$   
 $59.5 - 34 = 25.5$

$$4 \cdot 238 = 952$$

$$\frac{1}{7}$$

$$952 : 7 = 136$$

55.

„ 6000 : „  
 „ 5700 : „  
 „ 6000 : „  
 „ 5700 -  
 : 5650, 5651, 5652, ...,  
 5748, 5749.  
 6000  
 : 5500, 5501, 5502, ..., 6498, 6499.  
 5650 5749, 5500  
 5649.

56.

299, 149, 248, 304, 600 -  
 ?  
 $m, v, d, i, a$   
 $m + v + d + i + a = 600,$   
 $m + v = 248,$   
 $v + d = 299$   
 $d + i = 304,$   
 $i + a = 149.$   
 $m = 600 - (v + d + i + a) = 600 - (299 + 149) = 152$   
 $a = 600 - (m + v + d + i) = 600 - (248 + 304) = 48$   
 $d = 600 - (m + v + i + a) = 600 - (248 + 149) = 203$   
 $v = 600 - (m + d + i + a) = 600 - (152 + 48 + 304) = 96$   
 $i = 600 - (m + v + d + a) = 600 - (248 + 203 + 48) = 101$

57. 17:30, 2  
8 40  
?

$$17\text{ h }30\text{ min} + 8\text{ h }40\text{ min} - 24\text{ h} = 25\text{ h }70\text{ min} - 24\text{ h}$$

$$= 1\text{ h }70\text{ min} = 2\text{ h }10\text{ min},$$

2:10, 2  
00:10.

58. 18:00 16:00 -  
2 40  
?  
9:20. 2  
7:20.

59. 10  
2, 6  
?  
2, 4:2=2  
4, 10:2=5

60. 3 20  
2 20  
?  
2, -  
1 1  
2  
6 40

61. 4, 10  
?

$$4 \cdot 3 = 12$$

$$3 \cdot 10 = 30$$

$$30 - 12 = 18$$

$$18 : 2 = 9$$

62.

$$45 + 4 + 50 + 4 + 45 + 4 + 50 + 4 + 45 + 4 + 50 = 45 \cdot 3 + 4 \cdot 5 + 50 \cdot 3 = 305$$

63.

?

12:50

7 29 6 39

64.

56 9

20:16

05:16

44 9 56

06:12

65.

8

23

23 + 25 = 48

48 - 8 = 40

15 17

?

25

66.

21 cm

?

21 cm .

$2 \cdot 21 = 42 \text{ cm} .$

67. 96 cm -

?

96 cm .

$96 : 3 = 32 \text{ cm} ,$

$32 \cdot 4 = 128 \text{ cm}$

68. 1 cm , 1 dm , 1 m .

) 3 ?

) 40 ?

:

) 95 1 ?

) 10 1 ?

. )  $3 \text{ dm} = 30 \text{ cm} ,$

30

) 40  $40 \text{ dm} = 400 \text{ cm} = 4 \text{ m} ,$

4

) 95 95 cm ,

$1 \text{ m} = 100 \text{ cm} ,$  95

) 10  $10 \text{ dm} = 1 \text{ m} ,$

69. 8 424 km . 4 -

5 .

?

8 1  $424 : 8 = 53 \text{ km} .$  -

5  $53 + 4 = 57$

5  $57 \cdot 5 = 285 \text{ km} .$  -

$424 + 285 = 709 \text{ km} .$

70.  $240 \text{ km} .$   
 $\frac{1}{5}$   $13 \text{ km} .$   
 $?$   
 $240 : 5 = 48 \text{ km} .$   
 $48 + 13 = 61 \text{ km} .$  ,  $240 - 61 = 179 \text{ km} .$

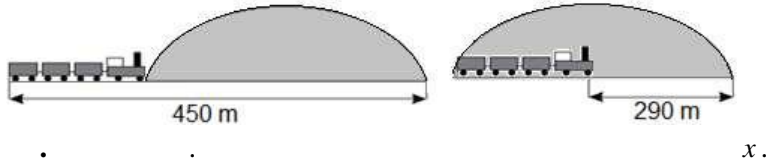
71.  $85 \text{ km} .$   
 $3 \cdot 85 = 255 \text{ km} .$   
 $85 \text{ km} ,$

72.  $360 \text{ km} .$   
 $\frac{1}{10}$   $15 \text{ km}$   
 $\frac{1}{5}$   
 $20 \text{ km} .$   
 $?$   
 $360 : 10 + 15 =$   
 $51 \text{ km} .$   
 $2 \cdot 51 = 100 \text{ km} .$   
 $360 : 5 + 20 = 92 \text{ km} .$   
 $360 - (100 + 92) = 166 \text{ km} .$

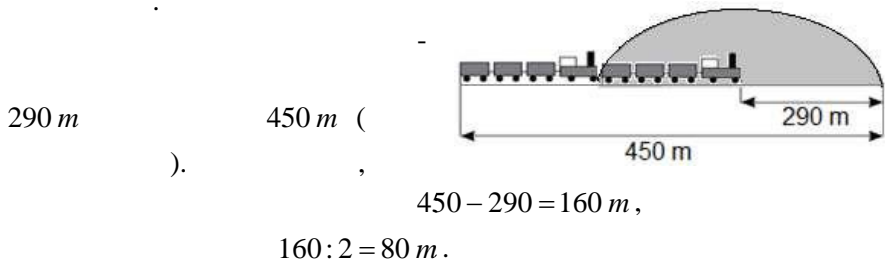
73.  $5$   $A$   $B$   
 $54$   $9$   $B$   
 $A$   
 $A$   $B$   $600$   $?$

$$\begin{array}{r}
 5 \\
 7 \\
 \hline
 12 \\
 7 \cdot 54 = 378 \text{ km} \\
 \hline
 600 - 378 = 222 \text{ km} \\
 \hline
 1 \\
 222 : 3 = 75 \text{ km}
 \end{array}$$

74.

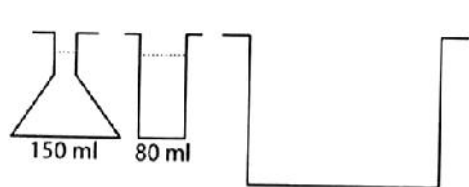


$$\begin{aligned}
 x + 290 &= 450 \\
 x + x + 290 &= 450 \\
 2x + 290 &= 450 \\
 2x &= 450 - 290 \\
 x &= 80 \text{ m}
 \end{aligned}$$



75.

$$\begin{array}{r}
 80 \text{ ml} \\
 : \\
 \hline
 600 \text{ ml} \\
 10 \text{ ml} \\
 520 \text{ ml} \\
 \hline
 600 = 4 \cdot 150
 \end{array}$$



150 ml .

)  $10 = 80 + 80 - 150$

80 ml ,

150 ml .

)  $520 = 150 + 150 + 150 + 150 - 80$

150 ml ,

80 ml .

76. 170 ml

60 ml

A

:

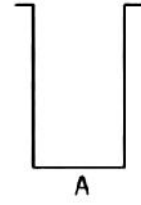
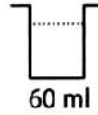
)  $510 \text{ ml}$  ,

)  $10 \text{ ml}$  ,

)  $610 \text{ ml}$  ,

)  $270 \text{ ml}$  ,

)  $710 \text{ ml}$  ,



. )  $170 + 170 + 170 = 510$

:

170 ml

A .

)  $60 + 60 + 60 - 170 = 10$

10 ml

A .

)  $13 \cdot 60 - 170 = 610$

610 ml

A .

)  $3 \cdot 170 - 4 \cdot 60 = 270$

270 ml

A .

)  $9 \cdot 60 + 170 = 710$

710 ml

A .

77.

225 l ,

82 l ,

350 l

?

350 l

$350 + 225 + 82 = 657 \text{ l}$  ,

$350 - 225 = 125 \text{ l}$

$350 - 82 = 268 \text{ l}$

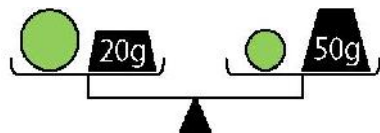
78.

100

20

50

100



$100 + 20 + 50 = 170 \text{ g}$  .

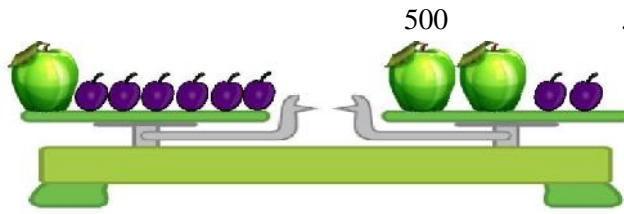
$170 : 2 = 85 \text{ g}$  .



$$85 - 20 = 65 \text{ g ,}$$

$$85 - 50 = 35 \text{ g .}$$

79.



500

?

1 2

4 1

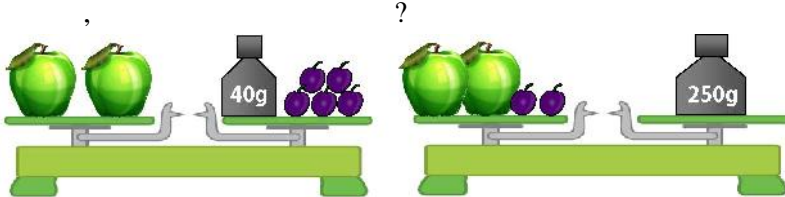
1 4

$$3 \cdot 4 + 8 = 20$$

$$500 : 20 = 25 \text{ g .}$$

$$4 \cdot 25 = 100 \text{ g .}$$

80.



5 40

40 250

$$250 - 40 = 210$$

$$5 + 2 = 7$$

$$210 : 7 = 30$$

$$40 + 5 \cdot 30 = 190$$

$$190 : 2 = 95$$

81.





$$7 + 7 = 14$$

86.

$$\begin{aligned}
 & 10 \\
 & ? \\
 & 2 \cdot 10 = 20, \\
 & 2 \cdot 20 = 40, \\
 & 2 \cdot 40 = 80, \\
 & 2 \cdot 80 = 160, \\
 & 160
 \end{aligned}$$

87.

$$\begin{aligned}
 & 5 \\
 & ? \\
 & 2 \cdot 5 = 10 \\
 & 2 \cdot 10 = 20 \\
 & 2 \cdot 20 = 40, \dots, 40
 \end{aligned}$$

88.

$$\begin{aligned}
 & 8 \\
 & ? \\
 & x \\
 & 8x + 6, \quad 10(x-1), \quad x = 8. \\
 & 8 \qquad \qquad \qquad 70
 \end{aligned}$$

89.

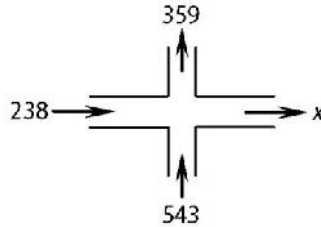
$$452$$

240

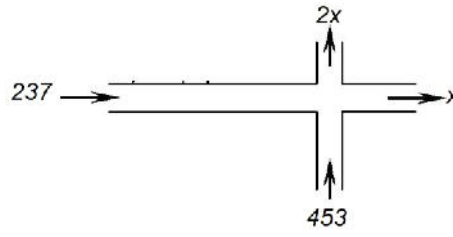
?

$x$  ,  $2x$   
 $x + 2x = 240$  ,  $x = 80$  .  
 80 , 160  
 $452 : 2 = 226$  .  
 $226 - 80 = 146$  ,  $226 - 160 = 66$

90.

(  )  
 $x$  ( - )  
 $238 + 543 = 359 + x$  ,  $x = (238 + 543) - 359$  ,  
 $x = 422$  .

91.

(  )  
 $x$  ( - )  
 $237 + 453 = 2x + x$  ,  $x = (237 + 453) : 3$  ,  
 $x = 230$  .

92.

980

$\frac{1}{4}$

$\frac{1}{5}$

$$\begin{array}{r}
 ? \\
 \cdot \quad \frac{1}{4} \quad 980 \quad 245, \quad \frac{1}{5} \quad 980 \quad 196, \\
 980 - (245 + 196) = 539
 \end{array}$$

93. 382

$$\begin{array}{r}
 ? \\
 \cdot \quad 382 : 2 = 191 \quad 191 = 20 \cdot 9 + 11
 \end{array}$$

$$\begin{array}{r}
 20 \cdot 9 = 180 \\
 20 + 1 = 21 \quad 40 + 2 = 42 \quad 60 + 3 = 63 \quad 80 + 4 = 84 \\
 100 + 5 = 105 \quad 120 + 6 = 126 \quad 140 + 7 = 147 \quad 160 + 8 = 168 \\
 180 + 9 = 189
 \end{array}$$

94. 564 ,

$$\begin{array}{r}
 49 \\
 ? \\
 ? \\
 \cdot \quad 564 : 2 = 282 \\
 282 - 49 = 233 \quad , \quad 282 + 233 = 515 \\
 49 \\
 49 \\
 564 - 49 = 515
 \end{array}$$

95. 240

$$240 : 3 = 80$$

$$240 : 2 = 120$$

$$120 - 80 = 40$$

96.

80

80

80

$$80 : 2 = 40$$

$$80 + 40 = 120$$

$$80 - 40 = 40$$

40

40

$$2 \cdot 40 = 80$$

$$120 - 40 = 80$$

97.

180

?

$$180 : 2 = 90$$

$$90 : 3 = 30$$

$$4 \cdot 30 = 120$$

$$180 - 120 = 60$$

98.

96

?

$$96 : 2 = 48$$

48

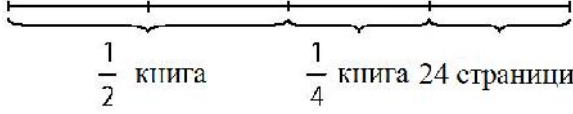
$$48 : 2 = 24$$

$$24 \cdot 3 = 72$$

$$96 - 72 = 24$$

99.  $570 \cdot \frac{1}{3}$   
 $12 \cdot ?$   
 $570 : 3 = 190$   
 $190 + 12 = 202$   
 $570 - 202 = 368$

100.  $3 \cdot ?$   
 $78$   
 $?$   
 $x,$   
 $6x,$   $x + 6$   
 $x + x + 6 = 6x - 78,$   $x = 21.$   
 $21 + 21 + 6 + 6 \cdot 21 = 176$

101.  $24$   
 $?$   
 $24$   
 $24$   
 $( \quad ) \cdot 4 \cdot 24 = 96$   
  
 $\frac{1}{2}$  книга  $\frac{1}{4}$  книга 24 страницы

102.  $450 \cdot \frac{1}{9}$   
 $\frac{1}{10}$   
 $\frac{1}{5}$   
 $400$   
 $450 : 9 = 50$   
 $400 : 10 = 40$

360

$360 : 5 = 72$

288

103.

250

?

$\frac{1}{7}$

$a$

( )

$6a$

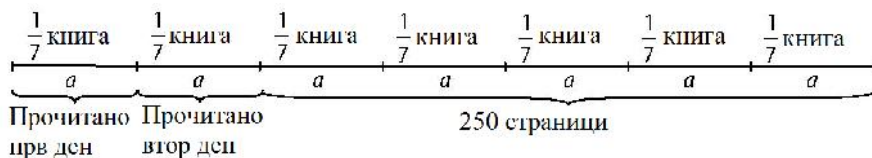


$\frac{1}{6}$

$6a : 6 = a$

$\frac{1}{7}$

( )



$5a$

$5a = 250,$

$a = 50.$

$7a = 350$

104.

180

7,

12

?

$180 : 3 = 60$

7

$60 - 7 = 53$

$60 - 12 = 48$

$60 + 7 + 12 = 79$

105.

750



$$750 : 3 = 250.$$

$$750 - 375 - 250 = 125$$

$$750 : 2 = 375,$$

$$375$$

$$250$$

106.

$$78$$

$$78 \cdot 3 = 234.$$

$$78 + 234 = 312$$

$$312 : 6 = 52$$

$$6$$

107.

$$358$$

$$358 - 100 = 258$$

$$258$$

$$258 + 258 + 358 = 874$$

108.

$$376$$

$$376 + 257 = 633$$

$$633 - 489 = 144$$

109.

$$28$$

$$9$$

$$9 \cdot 2 = 18 \quad , \quad 28 - 18 = 10 \quad , \quad 10 : 2 = 5 \quad -$$

$$2 \quad , \quad 9 - 5 = 4 \quad .$$

110.

$$22 \quad , \quad 74 \quad .$$

$$? \quad 2 \quad , \quad 4 \quad .$$

$$74 - 44 = 30 \quad . \quad 30 \quad 2 \quad 2 \cdot 22 = 44 \quad ,$$

$$, \quad 30 : 2 = 15 \quad . \quad ,$$

$$15 \quad 22 - 15 = 7 \quad .$$

111.

$$. \quad 32 \quad , \quad 88 \quad .$$

$$? \quad ,$$

$$32 \cdot 2 = 64 \quad . \quad , \quad 88 - 64 = 24 \quad ,$$

$$2 \quad , \quad 24 : 2 = 12 \quad .$$

$$, \quad 32 - 12 = 20 \quad .$$

112.

$$40 \quad 130 \quad .$$

$$? \quad 4 \quad ,$$

$$4 \cdot 40 = 160 \quad . \quad , \quad 160 - 130 = 30$$

$$, \quad 2 \quad ,$$

$$30 : 2 = 15 \quad . \quad ,$$

$$40 - 15 = 25 \quad .$$

113.

$$80 \quad , \quad .$$

$$? \quad .$$

$$. \quad 2 \quad , \quad 4$$

$$, \quad 2 \quad , \quad 1 \quad .$$

$$, \quad . \quad , \quad . \quad 80 : 2 = 40 \quad .$$

---

$40 : 2 = 20$        $40 : 4 = 10$  .

$2x$  .       $x$  .

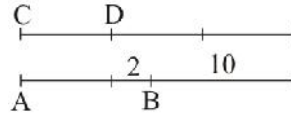
$4x + 2 \cdot 2x = 80$  ,       $4x + 4x = 80$  ,       $8x = 80$  ,      -

$x = 10$  .       $10$        $20$  .

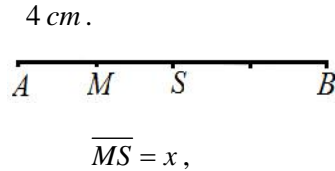
3.

1.  $\overline{AB} = 2 \text{ cm}$ ,  $\overline{CD} = 3 \text{ cm}$ ,  $\overline{AB} = 10 \text{ cm}$ ,  $\overline{AB} = \overline{CD}?$

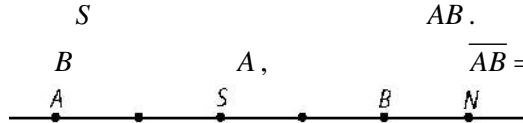
$$\begin{aligned} \overline{AB} &= \overline{CD} + 2 & \overline{AB} + 10 &= 3\overline{CD} \quad ( \\ \overline{CD} + 2 + 10 &= 3\overline{CD}, & 2\overline{CD} &= 12, & \overline{CD} &= 6 \text{ cm}. \\ \overline{AB} &= 8 \text{ cm}. \end{aligned}$$



2.  $\overline{AM} = x$ ,  $\overline{MB} = 3x$ ,  $\overline{AS} = 2x$ ,  $\overline{MS} = x$ ,  $\overline{AB} = 4x$ ,  $\overline{AB} = 4 \cdot 4 = 16 \text{ cm}$ .

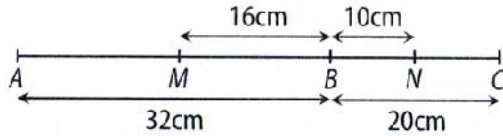


3.  $\overline{AS} = \overline{SB} = 2\overline{NB}$ ,  $\overline{SN} = \overline{SB} + \overline{BN} = 2\overline{BN} + \overline{BN} = 3\overline{BN}$ ,  $\overline{SN} = 15 \text{ cm}$ ,  $3\overline{BN} = 15 \text{ cm}$ ,  $\therefore \overline{BN} = 15 : 3 = 5 \text{ cm}$ .



$$, \overline{AB} = 4\overline{BN} = 4 \cdot 520 \text{ cm} .$$

4.  $a$   $AB$   $BC$   $\overline{AB} = 32 \text{ cm}$   
 $\overline{BC} = 20 \text{ cm} .$   $M$   $AB$  ,  
 $N$   $BC$  .  
 $MN$  .

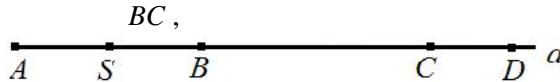


$$\overline{MB} = 32 : 2 = 16 \text{ cm}$$

$$\overline{BN} = 20 : 2 = 10 \text{ cm}$$

$$( \quad ) . \quad , \overline{MN} = \overline{MB} + \overline{BN} = 16 + 10 = 26 \text{ cm} .$$

5.  $a$   $AB, BC$   $CD$  (  $\quad$  ) .  
 $S$   $AB$  .  $\overline{SB} = 15 \text{ cm} ,$   $BC$   
 $12 \text{ cm}$   $AB$  ,  $CD$   $34 \text{ cm}$   
 $BC$  ,  $AD$  .

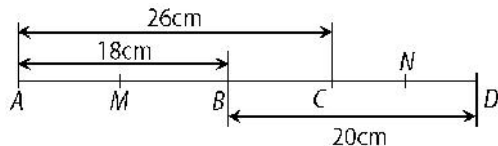


$$\overline{AB} = 2 \cdot \overline{SB} = 30 \text{ cm} ,$$

$$\overline{BC} = \overline{AB} + 12 = 42 \text{ cm} \quad \overline{CD} = \overline{BC} - 34 = 8 \text{ cm} .$$

$$\overline{AD} = \overline{AB} + \overline{BC} + \overline{CD} = 30 + 42 + 8 = 80 \text{ cm} .$$

6.  $p$   $AB, BC$   $CD$   
 $\overline{AB} = 18 \text{ cm} , \overline{AC} = 26 \text{ cm} \quad \overline{BD} = 20 \text{ cm} .$   $M$   
 $AB$  ,  $N$   $CD$  ,  
 $MN$  .



$$\overline{BC} = \overline{AC} - \overline{AB} = 26 - 18 = 8 \text{ cm} \quad \overline{CD} = \overline{BD} - \overline{BC} = 20 - 8 = 12 \text{ cm} .$$

$$M \quad N \quad AB \quad CD ,$$

$$\overline{MB} = 9 \text{ cm} , \overline{CN} = 6 \text{ cm} .$$

$$\overline{MN} = \overline{MB} + \overline{BC} + \overline{CN} = 9 + 8 + 6 = 23 \text{ cm}.$$

7.  $p$   $AB, BC, CD.$   $S$   
 $AB,$   $M$   $CD.$

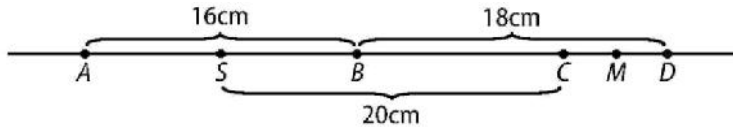
$$\overline{AB} = 16 \text{ cm}, \overline{SC} = 20 \text{ cm} \quad \overline{BD} = 18 \text{ cm},$$

$$BC, CD, MS.$$

$$S \quad AB, \quad \overline{BS} = 8 \text{ cm}.$$

$$\overline{BC} = \overline{SC} - \overline{SB} = 12 \text{ cm}, \quad \overline{CD} = \overline{BD} - \overline{BC} = 6 \text{ cm}. \quad M$$

$$CD, \quad \overline{CM} = 3 \text{ cm} \quad \overline{MS} = \overline{SC} + \overline{CM} = 23 \text{ cm}.$$



8.  $a$   $AB$   $BC$  ( ). -

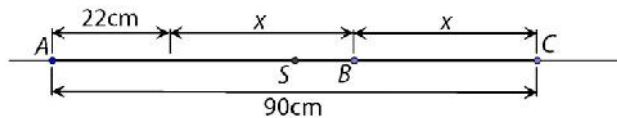
$$\overline{AB} = 22 \text{ cm} \quad \overline{BC} = \quad \overline{AC} = 90 \text{ cm},$$



$$\overline{AC} = 90 \text{ cm}.$$

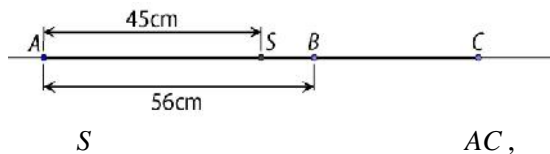
$$\overline{AB} = 22 \text{ cm} \quad \overline{BC} = x,$$

$$\overline{AB} = 22 \text{ cm} \quad \overline{BC} = x,$$



$$, 2x = 90 - 22 = 68, \quad x = 68 : 2 = 34 \text{ cm}.$$

$$\overline{BC} = 34 \text{ cm} \quad \overline{AB} = 34 + 22 = 56 \text{ cm}.$$



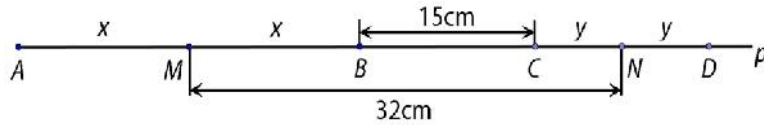
$$\overline{AS} = 90 : 2 = 45 \text{ cm} . \quad , \quad \overline{BS} = \overline{AB} - \overline{AS} = 56 - 45 = 11 \text{ cm} .$$

9.  $A, B, C, D$ .  $M$   
 $\overline{AB}$ ,  $N$   $\overline{CD}$ .  $\overline{BC} = 15 \text{ cm}$ ,  
 $\overline{MN} = 32 \text{ cm}$ ,  $\overline{AD}$ .

$x$   
 $\overline{AB}$ ,  $y$   $\overline{CD}$  ( ) .

$$x + y = \overline{MN} - \overline{BC} = 17 \text{ cm} .$$

$$\overline{AD} = \overline{AM} + \overline{MN} + \overline{ND} = x + \overline{MN} + y = 32 + 17 = 49 \text{ cm} .$$



10.  $A, B$   $C$   $B$   $A$   $C$  .  
 $S_1$   $S_2$   $\overline{AB}$   $\overline{BC}$  .

$$\overline{AB} = 8 \text{ cm} \quad \overline{AC} = 17 \text{ cm } 6 \text{ mm}$$

$$S_1 S_2 \quad \overline{AS_2} .$$

$$\overline{BC} = \overline{AC} - \overline{AB} = 17 \text{ cm } 6 \text{ mm} - 8 \text{ cm} = 9 \text{ cm } 6 \text{ mm} .$$

$$\overline{S_1 S_2} = \overline{S_1 B} + \overline{BS_2} = 4 \text{ cm} + 4 \text{ cm } 8 \text{ mm} = 8 \text{ cm } 8 \text{ mm}$$

$$\overline{AS_2} = \overline{AB} + \overline{BS_2} = 8 \text{ cm} + 4 \text{ cm } 8 \text{ mm} = 12 \text{ cm } 8 \text{ mm} .$$

11.  $A, B, C$   $D$   $B$   $A$   $C$ ,  $C$   
 $B$   $D$ .  $S_1$   $S_2$   $\overline{AB}$

$$\overline{AB} = 16 \text{ cm} , \quad \overline{AC} = 5 \text{ dm } 6 \text{ mm} \quad \overline{CD} = 12 \text{ cm } 8 \text{ mm}$$

$$S_1 S_2 .$$

$$\overline{BC}$$

$$\overline{BC} = \overline{AC} - \overline{AB} = 5 \text{ dm } 6 \text{ mm} - 16 \text{ cm} = 34 \text{ cm } 6 \text{ mm} .$$

$$\overline{S_1 S_2} = \overline{S_1 B} + \overline{BC} + \overline{CS_2} = 8 \text{ cm} + 34 \text{ cm } 6 \text{ mm} + 6 \text{ cm } 4 \text{ mm} = 49 \text{ cm} .$$

12.  $34 \text{ cm}$ .

3 cm, 3 cm, 2 cm,

$$34 + 3 + 2 - 3 = 36 \text{ cm} .$$

$$36 : 3 = 12 \text{ cm} .$$

$x$  ,  $a, b, c$   
 $a + b + c = 34$  ,  $a + 3 = x$  ,  $b + 2 = x$  ,  
 $c - 3 = x$  .

$$3x = a + 3 + b + 2 + c - 3 ,$$

$$3x = (a + b + c) + 3 + 2 - 3 ,$$

$$3x = 34 + 3 + 2 - 3$$

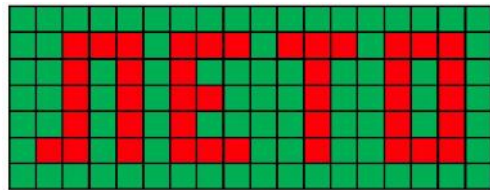
$$3x = 36 ,$$

$$x = 12 \text{ cm} .$$

13.

41

88 cm .



$a$  .  
 $26a$  ,  
 $22a$  ,  $16a$  ,  $24a$  .  
 $26a + 22a + 16a + 24a = 88$  ,  $a = 1 \text{ cm} .$

7 cm 18 cm

$$2 \cdot (7 + 18) = 50 \text{ cm} .$$

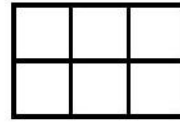
14.

2 cm .

?



(            ).



2 cm    12 cm ,    -

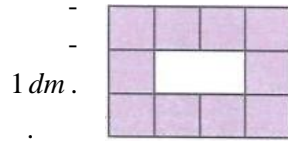
$$L' = 2 \cdot (2 + 12) = 28 \text{ cm} .$$

4 cm    6 cm ,

$$L'' = 2 \cdot (4 + 6) = 20 \text{ cm} .$$

28 cm .

15.



$$1 \text{ dm} = 10 \text{ cm} = 100 \text{ mm} ,$$

$$100 : 4 = 25 \text{ mm} .$$

6

14

$$(6 + 14) \cdot 25 = 500 \text{ mm} = 50 \text{ cm} = 5 \text{ dm} .$$

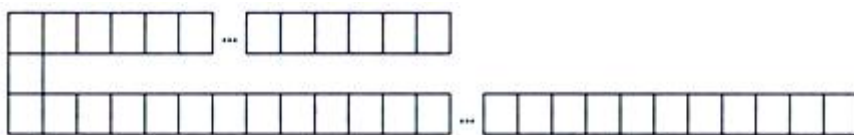
$$10 \cdot 1 = 10 \text{ dm} .$$

$$, \dots \quad 10 : 2 = 5 \text{ dm} .$$

16.

100

1 m 2 dm .



$$1 \text{ m } 2 \text{ dm} = 12 \text{ dm} ,$$

$$12 : 4 = 3 \text{ dm} .$$

$$98 \cdot 2 \cdot 3 + 2 \cdot 3 \cdot 3 = 588 + 18 = 606 \text{ dm} .$$

17.  $36 \text{ cm} .$

$4 \text{ cm}$

$36 \text{ cm} ,$

$$36 : 4 = 9 \text{ cm} .$$

$2 \cdot 9 = 18 \text{ cm} ,$

$$9 - 4 = 5 \text{ cm} .$$

$$L = 2 \cdot (18 + 5) = 2 \cdot 23 = 46 \text{ cm} .$$

18.  $1 \text{ km}$

$25$

$4 \text{ m} .$

$$1000 : 25 = 40 \text{ m} .$$

$a ,$   $b .$   $a + b = 20$

$$2a = 24 ,$$

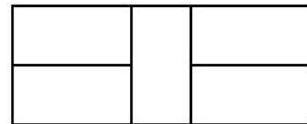
$$a - b = 4 .$$

$$a = 12 \text{ m} ,$$

$$b = 8 \text{ m} .$$

19.

$12 \text{ cm} .$

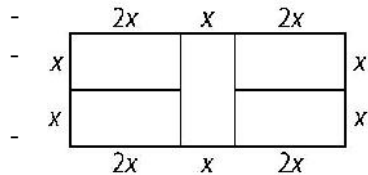


$x .$

$2x ($

$),$   $12 = 2(x + 2x) ,$

$x = 2 \text{ cm} .$

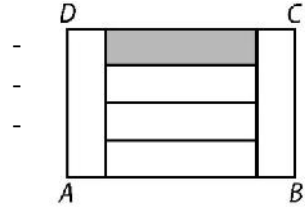


$$L = 2(2x + 5x) = 14x = 28 \text{ cm} .$$

$$a = 28 : 4 = 7 \text{ cm} .$$

20.

$ABCD$  ,  
 $20 \text{ cm}$  ,  
 $ABCD$  .



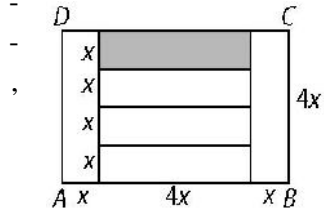
$$a \quad b .$$

$$2(a + 2b) = 20 \text{ cm} .$$

$ABCD$

$$4a + 4b = 2(2a + 2b) = 2 \cdot 20 = 40 \text{ cm} .$$

$$x .$$



$$4x .$$

$$2x + 2 \cdot 4x = 20 ,$$

$$x = 2 \text{ cm} .$$

$$ABCD \quad 2 \cdot 4x + 2 \cdot 6x = 20x = 20 \cdot 2 = 40 \text{ cm} .$$

21.

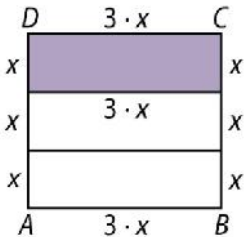
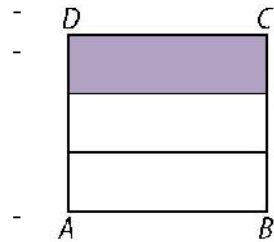
$ABCD$  ( ) .

$$56 \text{ cm} .$$

$ABCD$  .

$$x .$$

$$3x \text{ ( )} .$$



$$L_p = 2(x + 3x) = 8x ,$$

$$8x = 56 ,$$

$$x = 7 \text{ cm} .$$

$$L_k = 4 \cdot 3x = 12x ,$$

$$L_k = 12 \cdot 7 = 84 \text{ cm} .$$

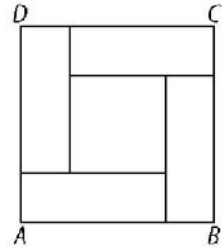
22.

$ABCD$

4

$80\text{ cm}$  ( ) .

$ABCD$  .



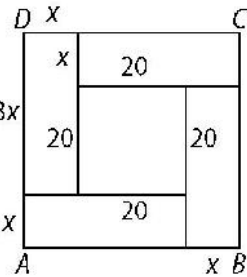
$80\text{ cm}$  ,

$80 : 4 = 20\text{ cm}$  .

$x + 20 = 3x$  ,  $x = 10\text{ cm}$  .

$ABCD$   $x + 3x = 4x = 4 \cdot 10 = 40\text{ cm}$  .

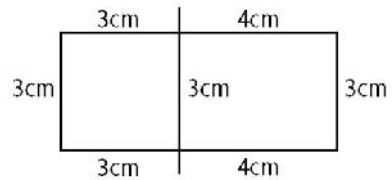
$L = 4 \cdot 40 = 160\text{ cm}$  .



23.

$3\text{ cm}$   $7\text{ cm}$

?



$3\text{ cm}$

$3\text{ cm}$   $4\text{ cm}$  .

$L = 4 \cdot 3 = 12\text{ cm}$  ,

$L' = 2 \cdot (3 + 4) = 14\text{ cm}$  .

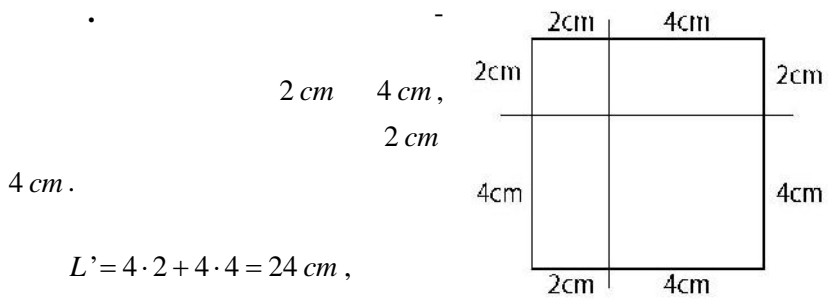
24.

$6\text{ cm}$

2

$2\text{ cm}$  ,

?



$$L' = 4 \cdot 2 + 4 \cdot 4 = 24\text{ cm},$$

$$L'' = 2 \cdot (2 \cdot 2 + 2 \cdot 4) = 24\text{ cm},$$

$$, L' = L'', \dots$$

25.

$5\text{ m}$

4

$\text{cm}$

?

4

$$5 : 5 = 1\text{ m}.$$

1

$$1\text{ m} = 100\text{ cm} : 10 = 10\text{ cm}.$$

$$40\text{ cm}.$$

26.

$96\text{ cm}.$

$$4 \cdot 4 = 16$$

$$96 : 6 = 16\text{ cm}.$$

$$6 \cdot 3 = 18\text{ cm}.$$

$x$

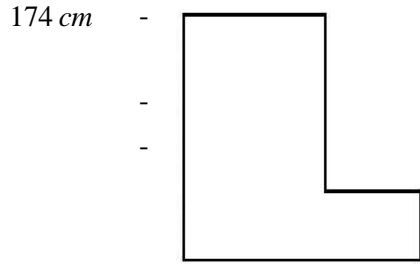
$3x,$

$$4x + 4 \cdot 3x = 96, \dots x = 6\text{ cm}.$$

,  $6\text{ cm}$ ,  
 $3 \cdot 6 = 18\text{ cm}$ .

27.

$67\text{ cm}$      $125\text{ cm}$



,  $L = 4 \cdot 174 = 696\text{ cm}$ .

$174\text{ cm}$ ,  $174\text{ cm}$ ,  $67\text{ cm}$ ,  $(174 - 67)\text{ cm}$ ,  $125\text{ cm}$      $(174 - 125)\text{ cm}$ ,

$$174 + 174 + 67 + (174 - 67) + 125 + (174 - 125) = 696\text{ cm}.$$

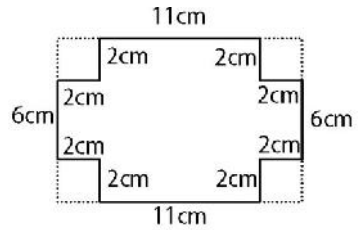
28.

$10\text{ cm}$      $15\text{ cm}$ .

$8\text{ cm}$ .

$8\text{ cm}$ ,

$2\text{ cm}$ ,



$$2 \cdot 11 + 2 \cdot 6 + 8 \cdot 2 = 50\text{ cm}.$$

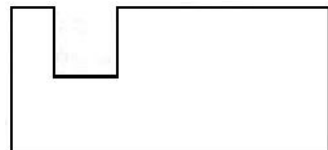
( ? ).

$$2 \cdot (15 + 10) = 50\text{ cm}$$

29.

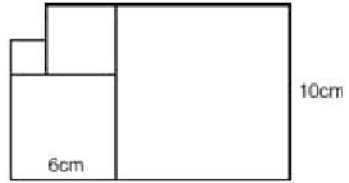
$309\text{ cm}$      $112\text{ cm}$

$57\text{ cm}$



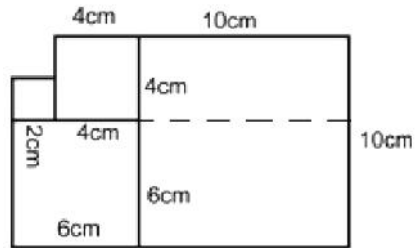
$$L = 2(309 + 112) + 2 \cdot 57 = 2 \cdot 421 + 114 = 842 + 114 = 956 \text{ cm}.$$

30.



$$10 - 6 = 4 \text{ cm},$$

$$6 - 4 = 2 \text{ cm}.$$

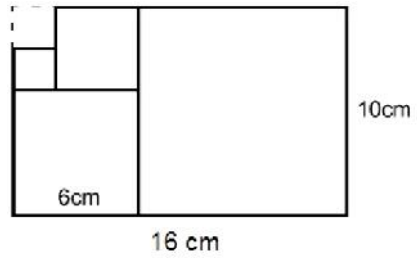


$$16 + 10 + 14 + 2 + 2 + 2 + 6 = 52 \text{ cm}.$$

16cm

10cm,

$$L = 2 \cdot (10 + 16) = 52 \text{ cm}.$$

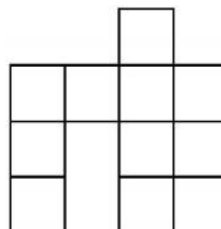
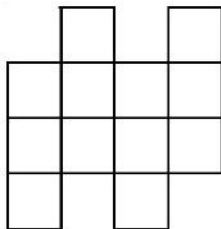


31.

5 cm .

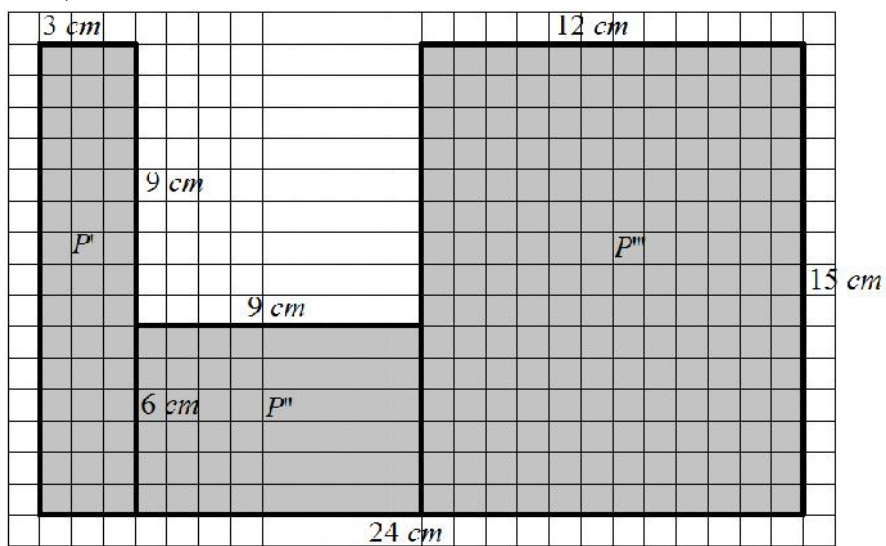
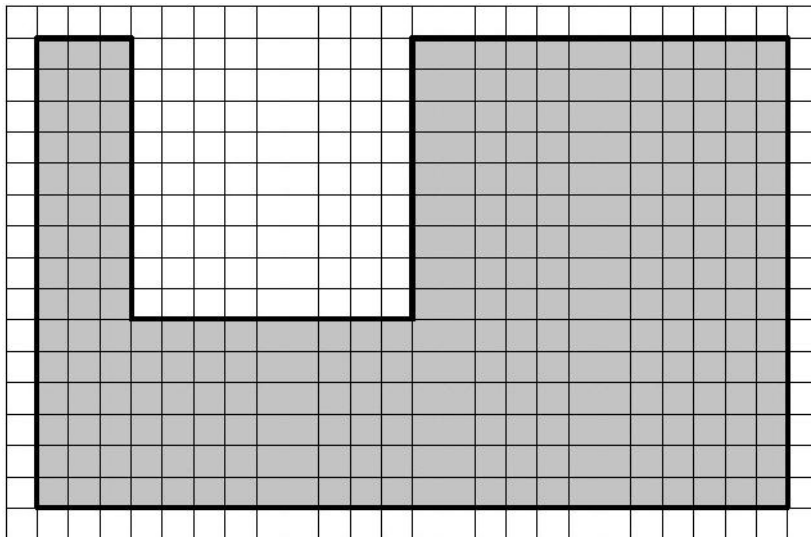
1 m .

20



32.

1 cm



$$L = 3 + 9 + 9 + 9 + 12 + 15 + 24 + 15 = 96 \text{ cm} .$$



$$P = P' + P'' + P''' = 3 \cdot 15 + 9 \cdot 6 + 12 \cdot 15 = 279 \text{ cm}^2.$$

15 cm    24 cm    9 cm .    -

9 cm .    ,

$$L = 2(15 + 24) + 2 \cdot 9 = 78 + 18 = 96 \text{ cm}.$$

15 cm    24 cm

9 cm .    ,

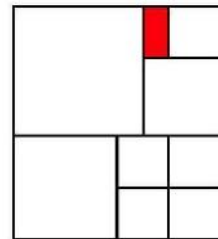
$$P = 15 \cdot 24 - 9 \cdot 9 = 360 - 81 = 279 \text{ cm}^2.$$

33.

8

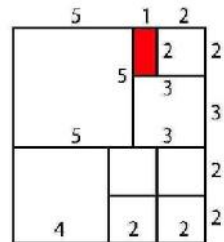
1 cm .

2 cm



$$5 + 1 + 2 = 4 + 2 + 2 = 8 \text{ cm} \quad 2 + 3 + 2 + 2 = 9 \text{ cm}.$$

$$L = 2 \cdot (8 + 9) = 34 \text{ cm}.$$



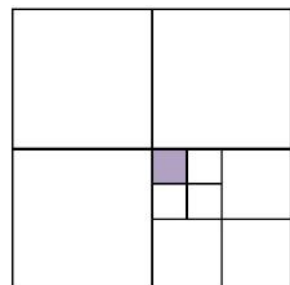
34.

10

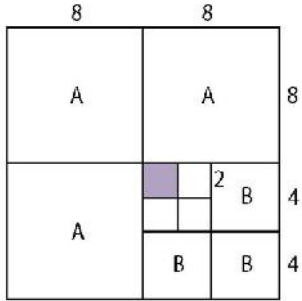
(    ) .

64 cm .

64 cm ,



$64 : 4 = 16 \text{ cm} .$



$16 : 2 = 8 \text{ cm} .$   
 $8 : 2 = 4 \text{ cm} ,$   
 $4 : 2 = 2 \text{ cm} .$   
 $4 \cdot 2 = 8 \text{ cm} .$

35.

$m$

$A, B, C .$

$p$

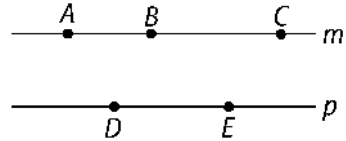
$m$

$D, E .$

)  $A, B, C, D, E .$   
 )  $A, B, C, D, E .$

)  
 $A, B, C, D, E :$

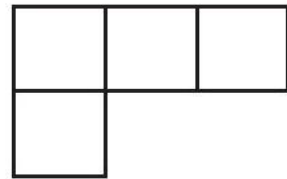
$m, p, p_1(A, D), p_2(A, E), p_3(B, D),$   
 $p_4(B, E), p_5(C, D), p_6(C, E).$



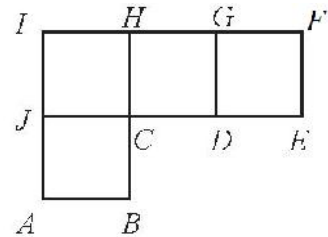
)  $A, B, C, D, E :$   
 $AB, AC, AD, AE, BC, BD, BE, CD, CE, DE .$

36.

)  
 )  
 )  
 ?



) 21  
 $AB, BC, CD, DE, EF,$   
 $FG, GH, HI, IJ, JA,$   
 $JC, CH, DG, AI, JD,$   
 $CE, BH, IG, HF, IF, JE.$



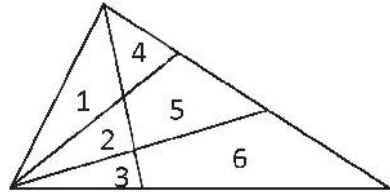
) : 12, 23, 34, 234.

) : 12, 23, 34, 234, 1, 2, 3 4.

2	3	4
1		

37.

?



1 6.

: 1, 2, 3, 4, 12, 14, 23, 25, 36, 45, 123, 456, 1245, 2356 123456.

15

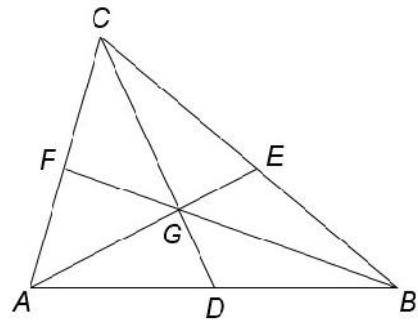
38.

?

!

16

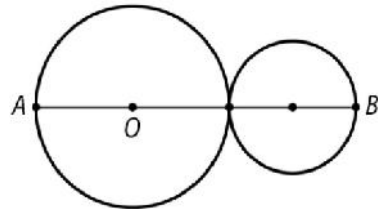
*ABC, AGD, DGB, BGE, EGC, CGF, FGA, AGB, BGC, CGA, ADC, BDC, ACE, ABE, ABF, CBF.*



39.

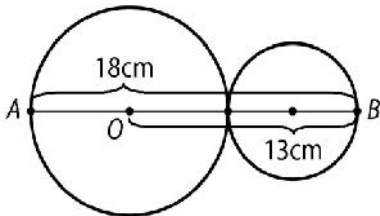
$$\overline{AB} = 18 \text{ cm},$$

$$\overline{OB} = 13 \text{ cm}.$$



$$\overline{AO} = \overline{AB} - \overline{OB} = 18 - 13 = 5 \text{ cm}.$$

AO



$$13 - 5 = 8 \text{ cm}.$$

$$8:2 = 4 \text{ cm.}$$

40.

24 cm,

14 cm.

$x$   $y$

$r$

$$x + y = 14 - 2r,$$

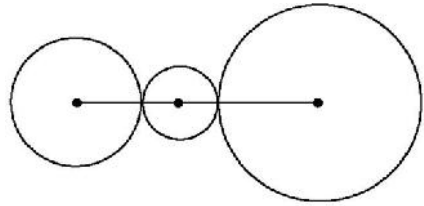
$$2x + 2y = 28 - 4r.$$

$$2x + 2y = 24 - 2r,$$

$$28 - 4r = 24 - 2r,$$

$$2r = 4 \text{ cm.}$$

4 cm.



41. )

5 cm.

)

$a$   $b$

)

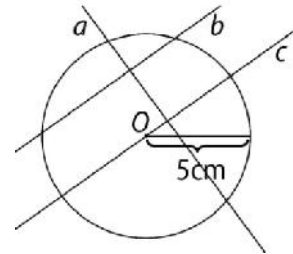
$c$   
 $b$

$a,$

)

$b$   $c?$

$b$   $c$



42.

$O$

6 cm.

$Oa.$   $C$

$Oa$

$OC?$

$B.$

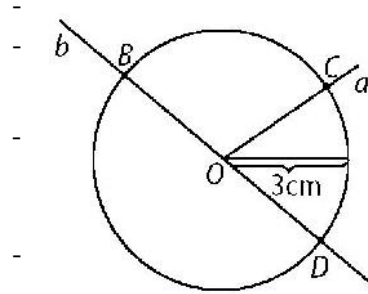
$b$

$B$   $O.$

$b$

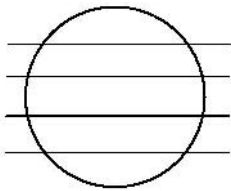
?

?  
 6 cm,  
 3 cm.  
 OC  
 BD.

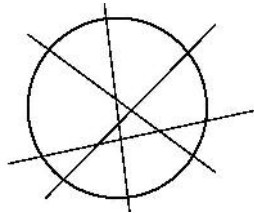


43.

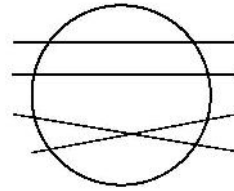
), 4  
 )  
 )  
 ) 6 ?  
 :



) 5



) 11



) 6

44.

7

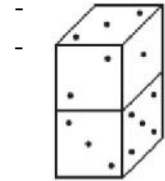
10. : 7 15,  
 (S)+ ( )= ( )+2.

:  $7 + 10 = 15 + 2$ .

4.

1.

7.



?

7,

( )  
 $14 - 3 = 11$

3

,

-

3

(

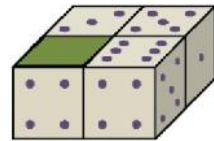
14.

-

2.

( )

9?



7.

$4 \cdot 7 - 9 = 19$

$6 + 5 + 3 = 14$ ,

$19 - 14 = 5$

,

5

2

3

6

4

1

9

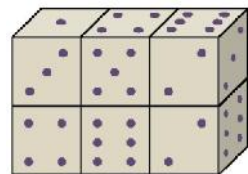
$9 - (1 + 2 + 4) = 2$

$7 - 2 = 5$

3.

7.

?



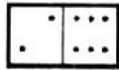
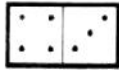
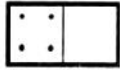
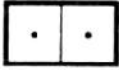
$$(7-3)+(7-5)+(7-2)+(7-4)+(7-6)+(7-2)=4+2+5+3+1+5=20.$$

$$3+5+2+4+6+2=22.$$

$$6 \cdot 7 = 42$$

$$42 - 22 = 20$$

4.

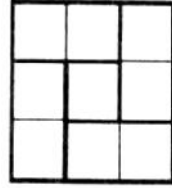


”

“

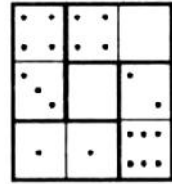
”

“

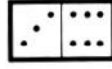
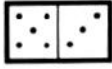
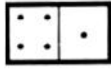
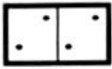


8.

8.



5.



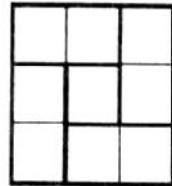
”

“

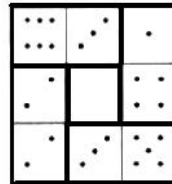
”

“

10.



10



6.



2, 5, 3, 4  
: 3, 2, 5,  
4, 7, 6, 9, 8, 11, 10.  
10

7.

?

$$365 + 365 = 730.$$

$$365 + 366 = 731.$$

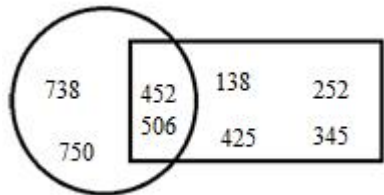
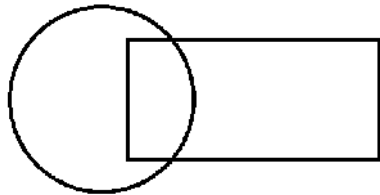
8.

252, 452, 750, 506, 138, 345,  
738 425

450,

550.

452 506



738

750,

138, 252, 345 425.

9.

62145,

3562.

12345,

?

4,

5,

6,

1, 2,

3,

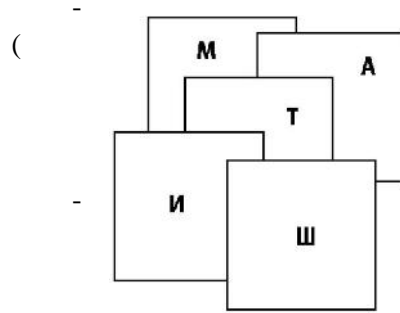
62132.



10.

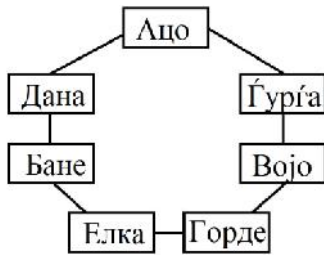
).

?

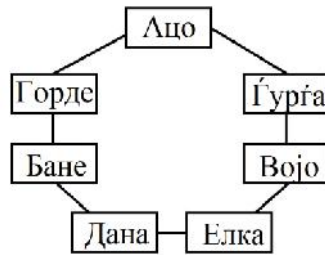


11.

?



:



12.

-

99

42

1,

99,

41,  
98, ...,

?

40, ...,  
43.

98

13.

29-

?

?

1 7-

1- 3-

3- , 10, 17, 24 31.  
 1, 5, 7, 9, 11,  
 13, 15, 19, 21, 23, 25, 27 29, . . . 13  
 , . . . : 1, 8, 15, 22 29,  
 : 3, 5, 7, 9, 11, 13, 17, 19, 21, 23,  
 25 27 12.  
 30 .  
 , 29-  
 31 .  
 14. , ?  
 .  
 2 . 2 ,  
 2 2 . , -  
 2 2 , 4  
 .  
 15. 3 5 -  
 . 2 , 2 -  
 , .  
 ?  
 .  
 5 . , 5 .  
 .  
 16. , , : , , .  
 , . -  
 ?  
 .  
 , , .  
 , .  
 17. .

”

“

?

18. 4. ; 21. ;  
 28. 28.

?

( )  
 (28- ), ( )  
 ( ), 28. 21. -  
 4.

19.

?

20.

1)

2)

3)

?

. , , -  
 . , -  
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21.

, , :  
 , ,  
 . :

1)

2)

3)

?

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 , ,  
 . ,  
 , .

22.

5, 1, 4, 3, 2.

1, 2, 3, 4, 5?

1, 2, 3, 4, 5

1)

5 2 : 2, 1, 4, 3, 5.

2)

1 2 : 1, 2, 4, 3, 5.

3)

3 4 : 1, 2, 3, 4, 5

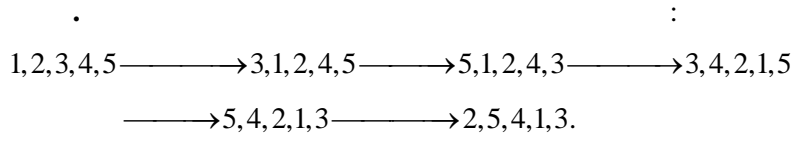
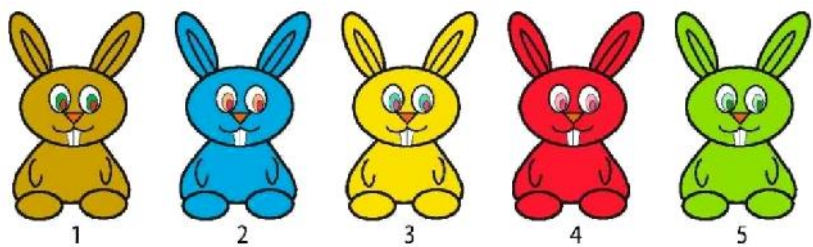
23.

:

-  
-  
,  
-

1, 2, 3, 4, 5 ( )

: - - - - ?



24. 7 . 5 , 8  
 ?  
 $5 + 5 - 8 = 2$

$2 + 5 = 7$

25. 9 , 50  
 200 -  
 2 ?  
 4 kg 500 g .  
 4 kg 500 g 2 kg 250 g .  
 250 g , 2 kg

26. 9 , 200 .  
2 ?

.  
4400 , 4600  
. 4400  
2200 . ,  
2000 , 200 ,  
2

27. 24 9 15 .  
. 12 -  
12  
, 12  
6 . 6 ,  
6  
3 . 3  
12 , 6

28. 7 5 2  
. , -  
. ?  
. , 3

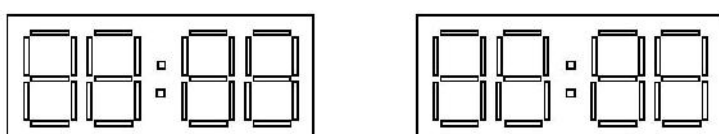
29. 20 11  
:  
) ,  
) .

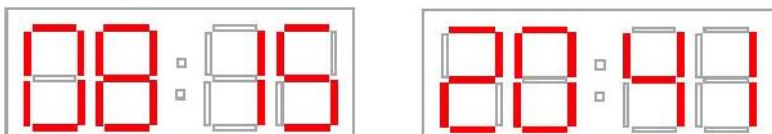
. ) 31 , 30  
 . , 29 , -  
 ) , 21  
 $20 + 2 = 22$   
 20 1 .  
 30. 11 , 12 20  
 . ,  
 :  
 ) ,  
 ) ,  
 ) .  
 . ) 43 , 41  
 . , 40 , -  
 1 , 1 1 ,  
 ) , -  
 $20 + 12 + 3 = 35$   
 34 , 20 , 12 2 ,  
 ) , -  
 21 . , 20 , -  
 . , -  
 31. 5 1, 2,  
 3, 4, 5, . 2  
 : „ -  
 . “  
 ?  
 $1 + 2 + 3 + 4 + 5 = 15$  , -  
 :  $1 + 3 = 4, 1 + 5 = 6, 2 + 4 = 6, 3 + 5 = 8.$  ,

4, 6 8.

32.                    5                    ,                    3                    ,  
                          100                    .                    ?  
                          500                    ?  
                          500                    2                    .                    5                    .  
5 + 2 + 1 = 8                    .

33.                    4                    .                    5  
                          15                    .                    ,                    .  
                          100                    ?  
                          100 = 6 · 15 + 10                    7  
                          7 + 2 + 1 = 10                    .

34.                    ◦ (                    ).  
                          : 8                    15                    8  
41                    ?  
  
                          8                    15                    20  
                          ,                    8                    41

17                    .  


35.                    4.                    -  
                          .                    4



$$4 = 4 + 0 + 0 = 3 + 1 + 0 = 2 + 2 + 0 = 2 + 1 + 1.$$

400, 310, 130, 220, 202 112. , 6 :

36.

5.

$$5 = 5 + 0 + 0 = 4 + 1 + 0 = 3 + 2 + 0 = 3 + 1 + 1 = 2 + 2 + 1$$

: 401, 203, 311, 131, 113 221.

37.

27.

$$27 = 1 \cdot 3 \cdot 9 = 3 \cdot 3 \cdot 3,$$

: 139, 193, 319, 391, 913, 931 333.

38.

16.

$$16 = 1 \cdot 2 \cdot 8 = 1 \cdot 4 \cdot 4 = 2 \cdot 2 \cdot 4.$$

242, 422. 12 : 128, 182, 218, 281, 812, 821, 144, 414, 441, 224, 16.

39.

10

: 721, 631, 541, 532, 910, 820, 730, 640.

40.

14

: 149, 239, 158, 248, 167, 257, 347 356.

41.

$$\begin{aligned}
 & \cdot \qquad \qquad \qquad 5? \\
 & \qquad \qquad \qquad 0, \\
 & \quad 0 \qquad \qquad \qquad \cdot \qquad \qquad \qquad , \\
 & 302 \quad 401. \qquad \qquad \qquad , \\
 & \qquad \qquad \qquad 3+0+2=4+0+1=5 \quad 3 \cdot 0 \cdot 2 = 4 \cdot 0 \cdot 1 = 0. \\
 & 5 \\
 & 3+1+1=2+2+1=5, \qquad \qquad \qquad 3 \cdot 1 \cdot 1 = 3 \quad 2 \cdot 2 \cdot 1 = 4. \\
 & , \qquad \qquad \qquad 4.
 \end{aligned}$$

42. 9

$$\begin{aligned}
 & \cdot \qquad \qquad \qquad 9 \\
 & \qquad \qquad \qquad : \\
 & 8+1+0=7+2+0=6+3+0=6+2+1=5+4+0=5+3+1=4+3+2=9 \\
 & \qquad \qquad \qquad : 810, 720, 630, 621, 540, 531 \\
 & 432.
 \end{aligned}$$

43. 11

$$\begin{aligned}
 & \cdot \qquad \qquad \qquad 11 \\
 & \qquad \qquad \qquad : \\
 & 1+2+8=1+3+7=1+4+6=2+3+6=2+4+5. \\
 & , \qquad \qquad \qquad : 128, 137, 146, 236 \quad 245.
 \end{aligned}$$

44. 18

$$\begin{aligned}
 & \cdot \qquad \qquad \qquad 18=9 \cdot 2 \cdot 1 = 6 \cdot 3 \cdot 1 = 3 \cdot 3 \cdot 2, \\
 & 921, 631 \quad 332.
 \end{aligned}$$

45.

$$\begin{aligned}
 & \qquad \qquad \qquad 36 \\
 & \cdot \qquad \qquad \qquad 36
 \end{aligned}$$

$$36 = 1 \cdot 4 \cdot 9 = 1 \cdot 6 \cdot 6 = 2 \cdot 2 \cdot 9 = 2 \cdot 3 \cdot 6 = 3 \cdot 3 \cdot 4.$$

, : 149, 166, 229, 236 334.

46.

1000

24.

.

$$9 + 9 = 18 < 24,$$

24,

25 : 889, 898, 988, 799, 979, 997.

26 : 899, 989, 998.

27 : 999.

47.

888

23.

23

$$7 + 8 + 8 = 7 + 7 + 9 = 6 + 8 + 9 = 5 + 9 + 9 = 23,$$

: 788, 878, 887, 779, 797, 689, 698,

869 599.

48.

?(

.)

. : - , - ,  
- . : , , , , , . ,  
.

49.

:

3,

3?

.

3

1 3,

1

,

3

3 : 113, 131 311.

0, 1, 2 3,

: 111, 120, 102, 210, 201 300.

,

3.

50.

100.

?

.

100. :

$100 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 = 100,$   
 $2 \cdot 50 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 = 100,$   
 $5 \cdot 20 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 = 100,$   
 $2 \cdot 2 \cdot 25 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 = 100,$   
 $2 \cdot 2 \cdot 5 \cdot 5 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 = 100,$   
 $4 \cdot 5 \cdot 5 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 = 100,$   
 $2 \cdot 5 \cdot 10 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 = 100,$   
 $4 \cdot 25 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 = 100,$   
 $10 \cdot 10 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 = 100,$

10

$100 + 9 = 109,$   
 $2 + 50 + 8 = 60,$   
 $5 + 20 + 8 = 33,$   
 $2 + 2 + 25 + 7 = 36,$   
 $2 + 2 + 5 + 5 + 6 = 20,$   
 $4 + 5 + 5 + 7 = 21,$   
 $2 + 5 + 10 + 7 = 24,$   
 $4 + 25 + 8 = 37,$   
 $10 + 10 + 8 = 28.$

10

100 20.

51.

4?

.

5

1

8 9, 9

,

,

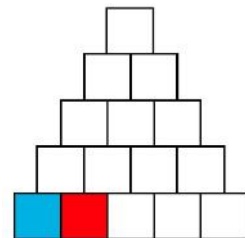
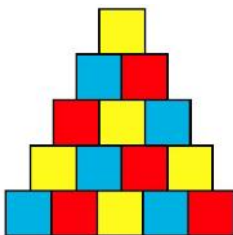
1, 3, 5, 7 9,

4,

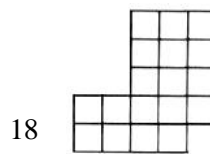
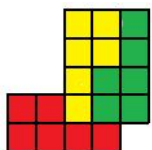
: 1, 2, 3, 4, 5, 6, 7,

$5 \cdot 1 \cdot 9 = 45.$

52.



53.



18

$$18 : 3 = 6$$

54.

3



1 cm,

8 cm .

4

)

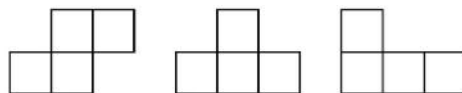
?

)

1 cm .

)

4



)

10 cm, 10 cm, 10 cm,



8 cm, 10 cm.

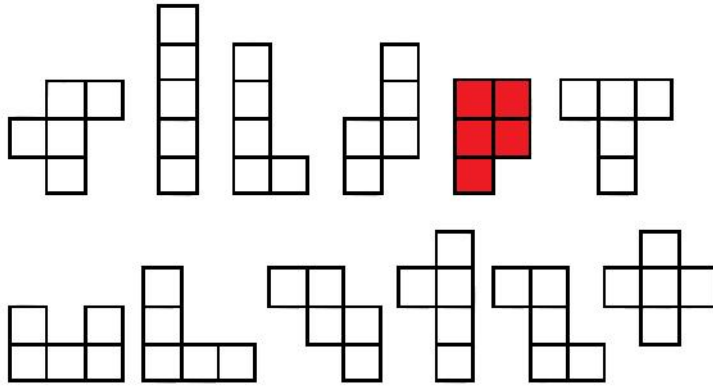
55.

?

1 cm .

12 cm ,

10 см . !



56.

), ,  
) ,  
) ,  
) .

: - - . , ,

:

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С	Т	И	Л
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57.

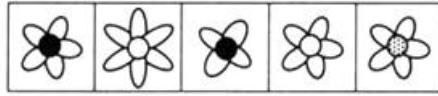
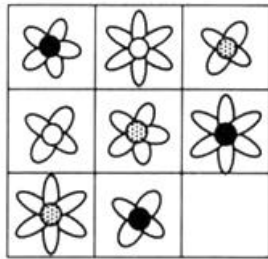
- ,  
- ,  
- .

: - - . :

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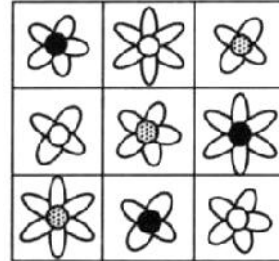
С	Т	А	Р
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58.



4, 5 6 -

5



59.

