



---

		5
1.	e	7
2.		21
3.		41
4.		53
1.	e	63
2.		97
3.		147
4.		178



---

393

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-  
-  
-  
-

-  
-  
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-

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,  
a e ,  
.  
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-  
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,  
-

20. , 2024 .

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**1.**

1. 200 200 .  
?

2. 2006 2006  
2006- ?

3. 179 100 ( ).  
1) ?  
2) 179- ?

4. 2015 2015 ,  
) ?  
) 2015- ?

5. 1465830927  
( ) :  
) ,  
) .

6. 812998253 -  
( ) :  
) ,  
) .

7. 2545093409  
( ) :  
) ,  
) .

8. 6250945068 -  
( ) :  
) ,

9.  $4709,$   
 $2 \ 5$  :  
 ) ,  
 ) .
10.  $52206,$   
 $1,8 \ 0$  :  
 ) ,  
 ) .
11.  $a \ b$   
 $533780$  :  
 $ab533780, ba533780, 533780ab, 533780ba, a533780b, b533780a$  .  
 $427457$  ,  
 $a = 0 \ b = 4?$
12.  $68364$   $5$   
 :  
 ) ,  
 ) .
13.  $9, 5, 0, 4, 2$   
 .
14.  $7525$   $25$   $17$   
 $8517 \ 1734$   
 $17?$
15.  $30,$   
 $0,4 \ 5.$
16. :  
 :



2002	
304	
25	
513	

4321?

17.

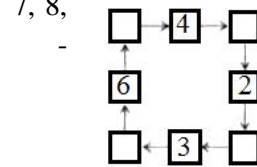
:

14	
203	
110	

18.

1 5  
:  
)  
)

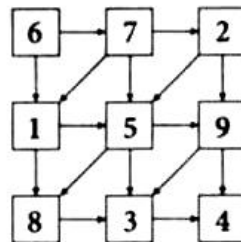
7, 8,



19.

15834  
3594.  
?

615934,  
16753



20.

4 7 0 9  
2 5  
:  
) , )

21.

5 2 2 0 6

1, 8 0

) :

) ,

) .

22.

664422

3

) :

) ,

) .

23.

) , ) ,

42.

24.

) , ) :

53.

25.

1, 2, 3, 4, 5, 6 ( )

) :

) ,

) ,

) ,

) .

26.

) :

) ,

) ,

) ,

) .

27.

527906 , 957206.

651870?

28.  $\boxed{38}, \boxed{66}, \boxed{4}, \boxed{1}$ .  
 (  $438 \quad 661$  ).  
 ?

29.  $\boxed{80}$   $\boxed{66}, \boxed{59}, \boxed{90}$   
 2007?

30. :  
 )  $2563 + 437 \cdot 6$ , )  $19755 : 5 - 2637$ , )  $145 \cdot 9 + 2028 : 26$ .

31. :  
 $A = 1325 : 5 + 15 : 5 - (99 - 9 : 9) \cdot 2 - 35 - 30$ .

32. 8 .  
 182. , 266.  
 -  
 ?

33.  $a + b - c = 1512$ .  
 500?

34.  $a \cdot b : c = 671$ .  
 $a, b, c$  .

35. :  
 $1 + 3 + 5 + \dots + 2007 + 2009$  .

36.  $2009 - 2007 + 2005 - 2003 + \dots + 9 - 7 + 5 - 3 + 1$  .

37.  $S = 1 + 11 + 21 + 31 + \dots + 1981 + 1991 + 2001 + 2011$  .

38.  $A = 11 + 111 + 211 + 311 + \dots + 1811 + 1911 + 2011$  .

39.

200920092009...20092009 ( 2009  
2010 ).

40.

2023.

?

41.

2010

100 (

)

42.

17

43.

18

44.

$x - y$

11.

$x - y$ .

45.

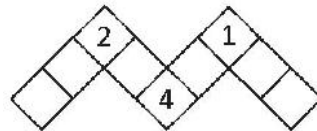
:  
 )  $5 \cdot 500 \cdot 5000x = 125 \cdot 2000 \cdot 3000$ ,  
 )  $650 + 360 + 790 + 570 = (65 + 36 + 79 + 57)x$ .

46.

:  
 )  $31 \cdot 400 \cdot 7000x = 124 \cdot 2000 \cdot 14000$ ,  
 )  $6400 + 3600 + 4600 + 5800 = (32 + 29 + 23 + 18)x$ .

47.

3, 5, 6, 7, 8 9,



”

“

48.

1, 2, 3, 6, 8 9



”

“

49.

▲	■		●	14
■	♥	■		16
♥	▲	●	▲	23
●	■	●	▲	15
20	24	7	17	

.( )

50.

1, 2, 3, 4, 5 6,

750.

?

?

51.

:

1 2 3 4 5 6 7 8 = 2006 .

52.

:

9 8 7 6 5 4 3 2 1 = 2010 .

( )

53.

:

999999999999 = 2020

54.

( )

:

$A, \overline{BC}, \overline{BD}, \overline{CE}, \overline{FF}$

55.

$$\begin{array}{r}
 \square \triangle \\
 \triangle \circ \\
 + \circ \square \\
 \hline
 \square \triangle \circ
 \end{array}$$

56.

$$\begin{array}{r}
 AB - C = D \\
 + \quad : \quad + \\
 \hline
 A + E = F \\
 AA - E = G.
 \end{array}$$

57.

$$\overline{AB} + \overline{BC} + \overline{CA} = \overline{ABC},$$

58.

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

59.

$$\overline{AR} + H + I = \overline{MED} \quad P \cdot S = F,$$

$F ?$

60.

$$\overline{MK} + \overline{MK} = \overline{AMS}$$

61.

$$\overline{MK} + \overline{MK} + \overline{MK} = \overline{AMS}$$

( , ) .

62.

$$\overline{MK} + \overline{MK} + \overline{MK} + \overline{MK} = \overline{AMS}$$

( , ) .

63.

$$\overline{MK} + \overline{MK} + \overline{MK} + \overline{MK} + \overline{MK} = \overline{AMS}$$

( , ) .

64.

$$\overline{LETO} + \overline{LETO} = \overline{ODMOR}$$

( , ) .

65.

$$\overline{SON} + \overline{SLON} = 2006 .$$

66.

( : )

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

67.

$$\overline{TRI} + \overline{PET} = \overline{OSUM} ,$$

68.

$$\overline{MK} \cdot \overline{MK} = \overline{AMS}$$

( , ) -

69.

OSUM · OSUM

\*\*\*\*

\*\*\*\*

\*\*\*\*

\*\*\*\*\*

70.

.	8	25
3	24	75
7	56	175

.		
	81	30
	108	

71.

.	8	25
3	23	75
7	56	175

:

.		
	606	
	505	5000

72.

.			
	56		1000
	21	81	

73.

15 ( )  
 ). ( 10  
 ( )  
 ). ,  
 :

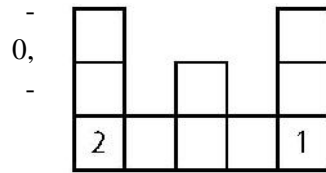


.			
	35	63	
		99	44
			404

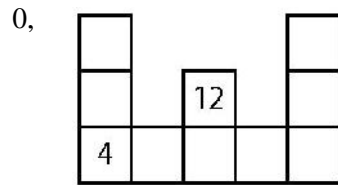
74. )  
       ?  
 )  
       ?

75. )  
       ?  
 )  
       ?

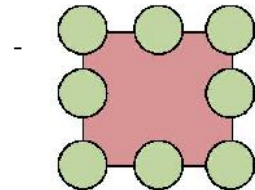
76.  
 3, 4, 5, 6, 7, 8 9  
 14.



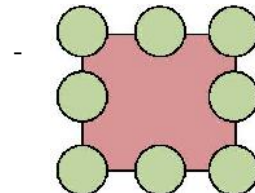
77.  
 2, 6, 8, 10, 14, 16 18  
 28.



78. 1, 2, 3, 4, 6, 7, 14 28  
 84.



79. 1, 2, 3, 4, 5, 6, 10 20



80.

	4	
10		
5		7

81.

11	6	
		8
7		

82.

“ ” ( ),  
( )

0	1	2	3	4	5	6	7	8	9


83.

24, 25, 26, 27, 28, 29, 30, 31, 32

(  
)


84.

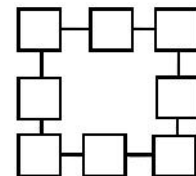
$3 \times 3$

2007.

85.

1, 2, 3, 4, 5, 6, 7, 8

13.



86.

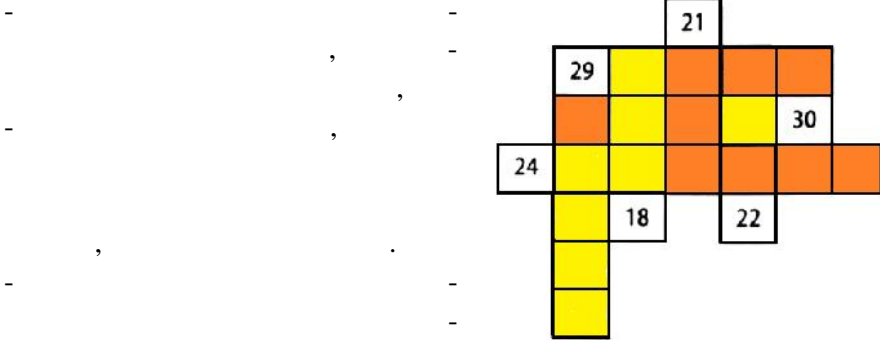
9

	14	8	
18			
6			

87.

1 9

:

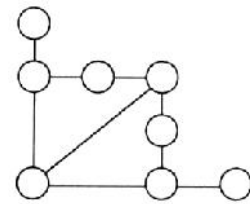


88.

6, 7, 8,

1, 2, 3, 4, 5,

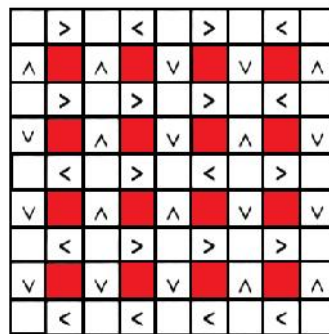
15.



89.

1 5

> <.

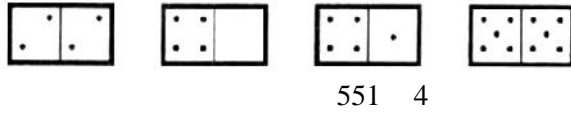


90.

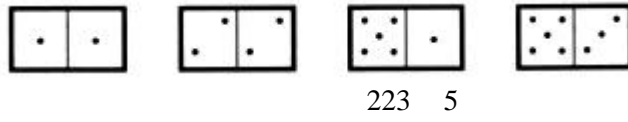
- ) AABB, CDD, CB, B,
- ) ABB, CAA, CB, B,

, , , . ( )

91.



92.



---

2.

1.

: „

“

2007,  
?

2.

: „  
9863

“

?

3.

2205.

4.

( )  
50  
7296.

5.

10  
2800.

6.

989.

7.

9899.

8.

A = 2013  
B .

B . -

- 
9.  $B = 2448$ ,  $A$   $A$ .
10. 2013 0 1  
?
11. 2014 0 1  
?
12. 15. 4, -  
16. ?
13. 119, ?
14. ?
15. 2009. 3,  
3
16. 2340. 2,  
2, 2 ?
17. 208. 3,  
3, 3,  
?
18. 275. 4,  
4, 4, ?
19. 2010. 1,  
2, 3,

---

. ?  
 20. , 30  
 30. ? 6  
 21. 4  
 ?  
 22. 2012. 4, ?  
 2 ?  
 23. 20122012. 201200,  
 20120, .  
 ?  
 24. 3  
 ?  
 25. 20 -  
 ?  
 26. 1234567. 2012,  
 2, .  
 ?  
 27. , 624.  
 56.  
 .  
 28. , 4030. , -  
 2013.  
 .  
 29. 4 . 27  
 ,  
 . ?

---

---

30. 5 . 36  
 ? , .

31. ?

32. 92.  
 ?

33. 24, 14  
 72.  
 ?

34. 22. 4,  
 28. ?

35. 2014. 7,  
 2280. ?

36. 2014. 14,  
 1482. ?

37. 9. 2,  
 30. ?

38. 6. 7,  
 8, -  
 254. ?

39. 240. 24. ?  
 60,

40. 58 , 1?

41.



---

	124	?		
42.				-
	,			1
			357	?
43.				,
				1
		417	?	
44.				210
				1?
45.				.
				364
				?
46.		1	9999	-
	.			12345...9996999799989999.
				?
47.				.
				123456789...9998999910000.
				?
48.				-
		1, 2, 3, ...		312
	.			?
49.				
				1, 2, 3, ...
		303	.	?
50.		500		-
		2015	.	-
	?			
51.		2017.		-

---

- 3 5. ?
52. 2017.  
4 1.
53. 1, 2 3 ,  
444. ?
54. 1, 2, 3 4 24  
7733.  
?
55.  $\overline{yxxxy}$  5,  $\overline{xyxyx}$  2,  
 $x y$
56. 15 6 9 ( )  
30 ? -
57. 15 16:48 (16 48 -  
) 78 ? , -
58. 23 11 18  
45 . -  
?
59.  $\frac{1}{3}$  ,  $\frac{1}{4}$  -  
,  $\frac{1}{10}$  , -  
?
60. , , , -

---

2 2023

.  
,  
?

61.

21.03.2022 9 . ,  
3 . 21.03.2022  
9 ?

62.

. 2 22 33 , ?  
1 50 2000 .

63.

7 8. ,  
13 14 ,  
, . ?

64.

100 , 138 .  
1000000 ? 2000000 ?

65.

. 10 12 -  
100000 ? 150000 ?

66.

$\frac{1}{10}$  ,  
 $\frac{1}{5}$  , -  
?

67.

,

- 
68.                      ?                      65                      ,                      ?
69.                      35                      ,                      -
70.                      ?                      ,
71.                      720                      300                      60                      ,
72.                      ?                      146                      ,                      22
- ,                      20                      ,                      32                      -
- ,                      ?
73.                      17                      28                      ,
- ,                      14 *kg* ,
- ,                      ?
74.                      ,                      12 *kg* .
- ,
75.                      30 *kg* .                      3 *kg*                      ?

76. 6 kg 400 g . 50 g -  
 4 kg . -  
 .

77. 5 kg 4 kg , 2 kg  
 3 kg . 300 kg ?

78. 90 kg, 186 kg, 240 kg .  
 ?

79. 18 cm .  
 13 cm ?

80. 50 m .  
 4800 m ?

81. 4 m .  
 55 ?

82. 80m . 1600m ,  
 , 50m .  
 ?

83. 15 m .  
 16  
 1 m, 80 cm, 80 cm , . .  
 ?

84. 180 cm 140 cm -  
 80 m ?

85. 176459

?

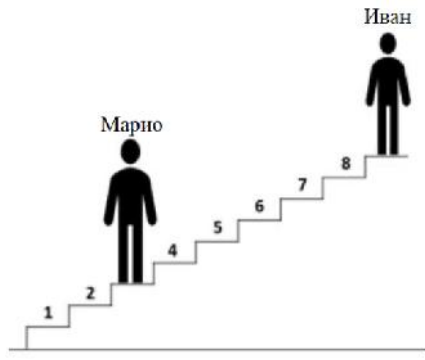
86. 76488

87. 1 3 1 240

88. 210 km, 5 2

89. 250 10 2 30 ?

90. ( ) 2 m . 30 cm ( ) ( ) 2 m 60 cm .



The diagram shows a staircase with 8 steps, numbered 1 to 8 from bottom-left to top-right. A person labeled 'Марно' (Marno) is standing on step 2. A person labeled 'Иван' (Ivan) is standing on step 8. The text to the left of the diagram contains mathematical expressions and units: '( ) - 2 m . 30 cm ( ) ( ) 2 m 60 cm . ?'.

91.  $7$  .  
 $3\text{ cm.}$   
 $10$  ,  $1\text{ cm.}$   
 $2\text{ m,}$   
 $?$

92. , .  
 $6$  .  $?$

93. ,  $18$   $60$  , .  
 $6$  .  
 $?$

94. , , (  $123$  ) .  
 $75$  .  $2$   $40$  , .  
 $1.$   
 $?$

95. ,  $100$  ,  $2007$  .  
 $60$  ,  $?$

96.  $1430$  . -  
 $317$   $294$  .  $246$

---

?

97. , 5724 .

500 . ?

98.

150 , 500 .

?

99.

87831 .

?

100.

3490 . 270

140 , ?

101.

2024 .

?

102.

2019 .

,

?

103.

16100 .

7400 ,

7100 .

,

?

104. 6 , 3 1 100



2, 100, 1, 2, 3, ?

105. 15, 5 kg, 8 kg, 33, ?

106. 1700, 33480, 3, ?

107. 2 kg, 3 kg, 3 kg, 5 kg, ?

108. 1 kg, 3 kg, 3 kg, 2 kg, 5 kg, 2 kg, 3 kg, ?

109. 1, 5, 1800, 1/5, 5, 1/6, 1/4, 1, ?

110. 10, 2009, 1/10, 1/9, ?

111. 3/4, 2006, ?

---

$$\frac{5}{6}$$

$$\frac{6}{7}$$

?

112. ,  
 $\frac{2}{3}$  ,

2016 ..  
 $\frac{3}{4}$

$$\frac{6}{7}$$

?

113. ,  
.

$$\frac{2}{3}$$

2016  
 $\frac{3}{4}$

$$\frac{5}{6}$$

?

114. 10

22

?

115. 3

4

6

?

116. 4 ,

12

?

117. 6 8 , 5

,

?) (

.)

118.

---

			,		,		.
			12	.			
		?					
119.	36	.	3	,	4	-	
		127.		4	?		
120.						-	
			: 130, 110, 100, 115	105.			
			:	.			
			,			-	
		?		.			
121.				144	:	-	
	,	.				-	
			,				
	.		?				
122.			400	.	10	-	
			,				
			,				
	.			?			
123.							
	.				„	“?	
124.	3	24	.			3	
	5	?					
125.	4	24	.		5		
30	?						
126.		448				-	
	, 28						

---

---

		2009	,	-
	?			
127.		1645	,	.
		18	17	,
			?	
128.			1435	,
	,			5
	,6	,7	,8	9
				-
		?		
129.				
	8			
				-
			?	
130.		60	.	-
	,			
		?		
131.			3600	:
				,
				.
			?	
132.				-
		4	,	
				-
		?		
133.				.
			,	

- 
134.  $50 \cdot 480 \cdot 40$  ?
135.  $5 \cdot 3$  ?
136.  $20$  -  
 $?$  -  
 $?$  -
137.  $29$  ?
138.  $24, 14, 62$  ?
139.  $25$  ?
140. -  
 $?$

210 ?

141. , 714 .  
?

142. 46 . -  
.

?

143. 2024 . -  
204 ,  
24 ,  
?

144. 180 .  
 $\frac{1}{6}$  ,  $\frac{1}{5}$   
?  
?

145. 200 . -  
4, 6 .  
5 , ?

146. .  
?  
?

147. .  
” “ , “ : ”  
“

- 
148. , ?  
480 . ,  
?
149. .  
,  
.
150. й , -  
. 5 , 3 -  
. 4 , 3 .  
?
151. 4 , 2 , 5 ,  
.  
?
152. , 140 .  
,  
40 . , -  
?
153. 25 .  
5 , 7  
,  
?
154. -  
.  
?

---

155.  $\frac{2}{3}$  ,

$\frac{1}{2}$  3 .

?

156. ( ) 468

2024

?

157. .

,

,

3 .

?

158. , 180 .

,

?

159. 24 -

$\frac{3}{5}$

?

160. ” “ -

,

”

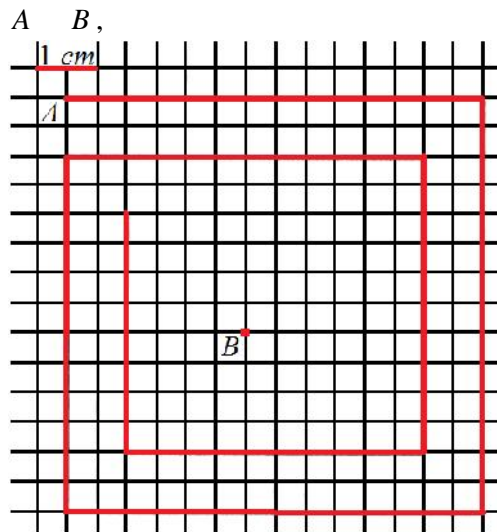
“?”



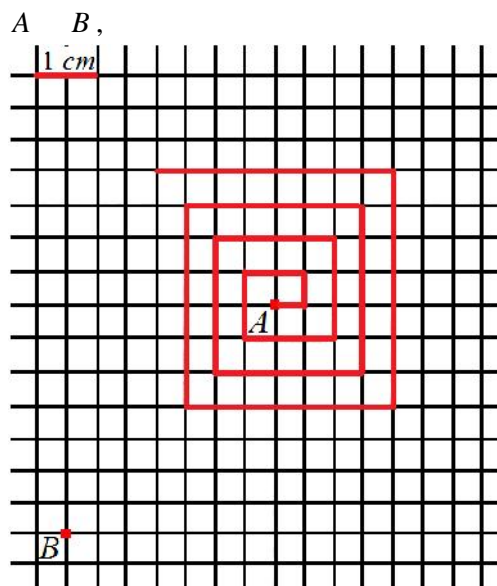
---

**3.**

1.



2.



3.  $A, B, C, D$   
 $AB = 2m, AC = 24cm, BD = 7dm,$   
 $CD = 246cm.$   
 $C.$

4.  $A, B, C, D$   
 $AB = 3m, AC = 56cm, BD = 11dm.$   
 $C, D?$

5.  $A, B, C, D, E$   
 $AB = DE = 16cm,$   
 $BC = CD = 6cm.$   
 $AE.$

6. )  
 )  
 )

7. )  
 )

8. )  
 )  
 $72cm.$

9. )  
 $6cm^2.$

10.  $ABC (\overline{AB} = \overline{AC})$   
 $AC$   
 $ABD = 16cm, D,$   
 $BC$   
 $BCD = 29cm, ABC,$

11.

*cm.*

$$3x+1 \quad 5x-7 \quad , \quad -$$

12.

(      ).

*78 cm .*

*3 cm .*



13.

*ABCD*

*MN*  
*20 cm .*

*8 cm*   *5 cm*

*MN .*

14.

*4 cm .*

*6 cm .*

?

15.

*2008 cm .*

*48 cm ,*   -

16.

*6 cm ,*

*8 cm ,*

17.

*50 cm ,*  
*1600 cm<sup>2</sup> .*



18.

40 cm

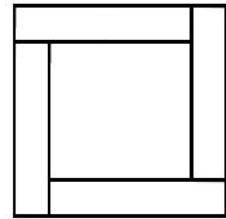
( )



19.

( )  
2012

(

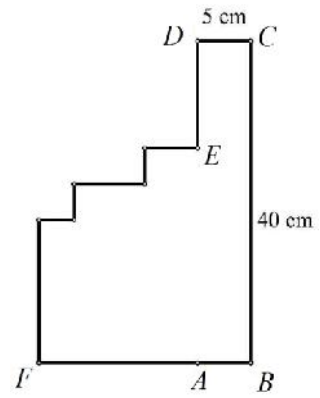


(  
) 8000

20.

ABCD

A.  
AB, BC CD.  
DA E  
A,



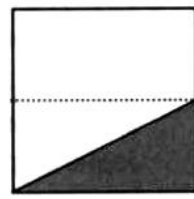
$\overline{BC} = 40\text{ cm}$   $\overline{CD} = 5\text{ cm}$ .

FA

140 cm.

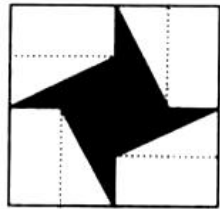
21.

8 cm



22.

16 cm



23.

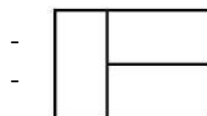
(                    ).  
60 cm .



24.

200 cm .

?



25.

8 dm 4 cm .

26.

30 cm .

27.

24 cm .

28.

96 m .

29.

		14
	28	
18		

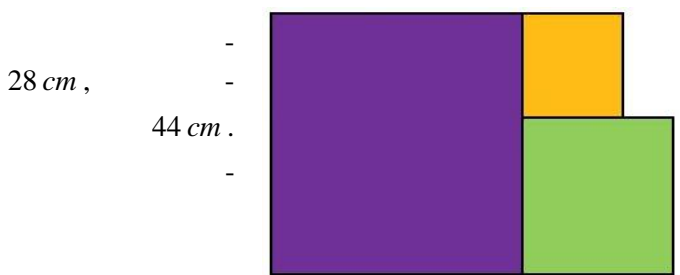
30.

, 11 5  
4 m .

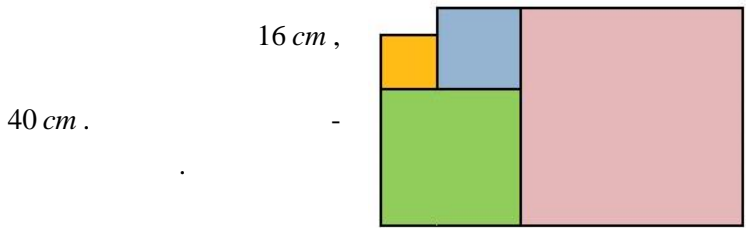
31.

6 11 ,

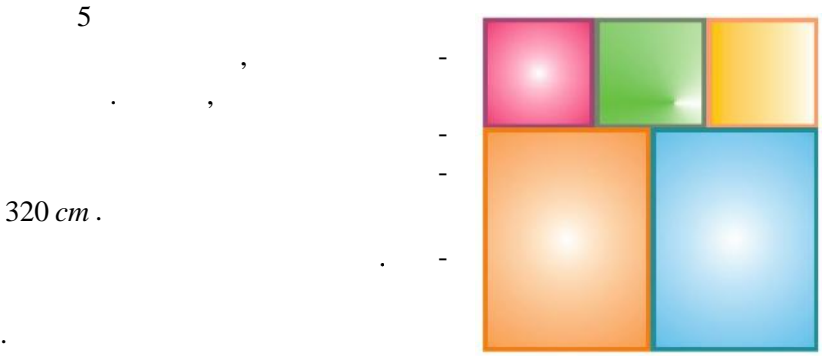
32.



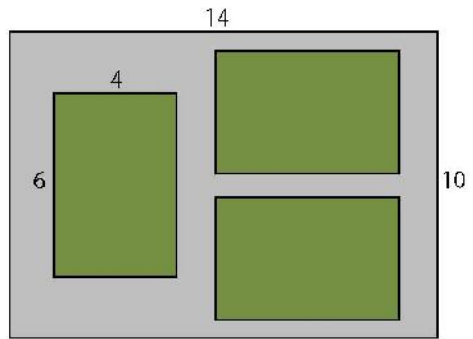
33.



34.



35.



36.

$2013 \text{ cm}^2$

$33 \text{ cm}$ ,

( )

?

37.

$3 \text{ cm}$ ,

$2 \text{ cm}$ ,

$81 \text{ cm}^2$ .

38.

$AB$

$ABCD$

$2 \text{ cm}$

$BC$ .

$1 \text{ cm}$ ,

$3 \text{ cm}$ ,

$ABCD$   $41 \text{ cm}^2$ .

$ABCD$ .

39.

$6 \text{ cm}$   $9 \text{ cm}$

40.

40

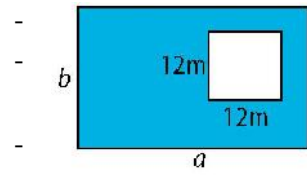
$a = 1 \text{ cm}$

?

41.

5 m

12 m .



14      ?

42.

2013 cm

1 cm

43.

64

$9 \text{ cm}^2$  .

44.

260 cm .

45.

$16 \text{ m}^2$

20% ,

20% .

?

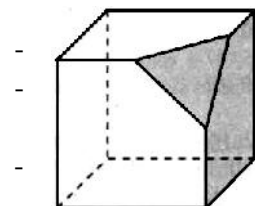
46.

6,8 dm .

8 cm ,

?

47.





?

48.

( )  
 $350 \text{ cm}^2$ .  
?



49.

$1400 \text{ cm}^2$

50.

$1408 \text{ cm}^2$

51.

$24 \text{ cm}^2$ ,

52.

$500 \text{ cm}^3$ .

4

?

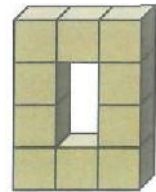
53.

$144 \text{ cm}^3$ .

18

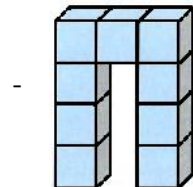
54.

$2 \text{ cm}$ ,



55.

$3 \text{ cm}$ .



- 
56. 212  
                     1 cm ?
57. 30  
           1 cm ?
58. 20 cm, 13 cm    7 cm  
                           5 cm, 13 cm    7 cm .  
   ?
59. 9 cm  
                           6 cm, 8 cm    3 cm ,
60. 4 cm, 6 cm  
           8 cm .
- 48 cm<sup>2</sup> .   -
61. 25 dm<sup>2</sup> .   -  
                           5 dm<sup>2</sup> .   .
62. 5 cm, 6 cm, 8 cm  
           ?  
                           ?
63. 144 cm<sup>2</sup> .   -  
    $\frac{2}{3}$
64. 5 cm, 8 cm    10 cm .   -
-

- 
- 180 cm<sup>2</sup> . -
65. 8 cm, 12 cm 14 cm -
- 8 cm, 4 cm 7 cm .
66. 15 cm, 10 cm 8 cm ,
- 5 cm, 10 cm
- 4 cm .
- ?
67. 448 cm . -
- 126 cm . ,
68. 28 cm .
69. 16 cm, 18 cm 9 cm .
- 4 cm, 18 cm 9 cm ,
- ?
70. 5 cm .
71. 3 cm .
72. 4 16 cm, 16 cm 4 cm

73.  $4\text{ cm}$   $12\text{ cm}, 6\text{ cm}$

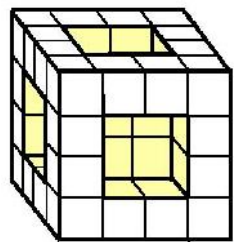
74.  $30\text{ cm}, 35\text{ cm}, 50\text{ cm}$  ( )  
?

75.  $60\text{ cm}, 40\text{ cm}$   
 $60\text{ cm}, 50\text{ cm}$   
)  
)

76.  $6\text{ cm}$   $2\text{ cm}$   $4\text{ cm}$   
 $568\text{ cm}^2$

77.  $3\text{ cm}$   $1\text{ cm}$   $2\text{ cm}$   
 $262\text{ cm}^2$

78.  $40$   
 $64$   
 $96\text{ cm}^2$   
,  
4



---

**4.**

1.

, , , ,  
, . . . . ?

2.

: „ 11 , -  
13 „ ?

3.

: „ , „ „  
, ?

4.

, . -  
, .  
?

5.

- 1) ,
  - 2) ,
  - 3) .
- ?

6.

: .  
:

- 
7.  $\dots$
8.  $\dots$
9.  $\dots$
10.  $\dots$
11.  $\dots$
12.  $\dots$
13.  $\dots$
14.  $\dots$
- ?

15.

5 ?

16.

42 12 , 14 16

?

17.

?

18.

15?



19.

100  
2 5 ?

20.

7 , 4

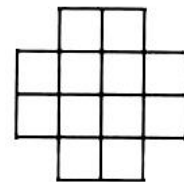
) 60 , ) 10

21.

1, 2, 3, ...

12,  
?

22.



23.

1, 2, ..., 8

)  
)

?

1, 2, ..., 8

24.

11, 7 6

?

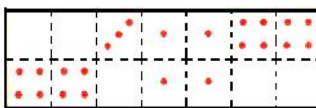
25.

7

?

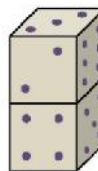
26.

( )



27.

7.



10.

?

28.

27

13

?

29.



- 
30. 5. 2055. XXI 5.5.55. ?
31. :
32. ? 2 ? 3
33. 507 .  
( )
34. ( ) ( ), ( ) -
35. 2000. 100
36. 30 122000.
37. 12000  
16.
- 38.

18.

39.

? 5 3000.

40.

33? ?

41.

. , 34243 777. ,  
?

42.

?

43.

3?

44.

12, -  
5. -

45.

-

46.

.

47.

, , -  
11 -  
?

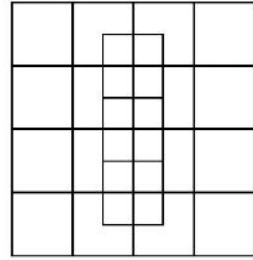
48.

15. 10. , ?



49.

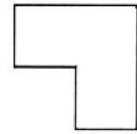
?



50.

51.

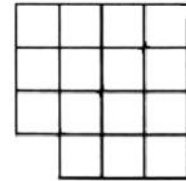
2, 3 4



52.

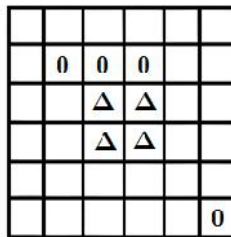
16

2, 3, 5



53.

4



54.

)

(

			12	14	13		
5	8	11	3	2	7	17	
15	10	9	3	18	19	6	
			4	16	8		

55.

9 cm 4 cm

?

56.

)

?

)

4

?

)

2

?

)

?



57.

8

,

?

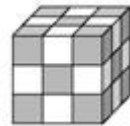
58.

3 cm

1 cm.

( )

?



59.

13

14

?( )

60.

27

,

:

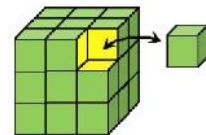
)

)

)

)

?



61.

4 cm

,

-

1 cm ( )

)

?

)

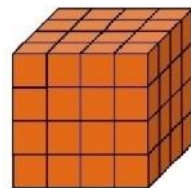
?

)

?

)

?



---

62.

:

?

63.

:

- 1)
- 2)
- 3)
- 4)
- 5)

64.

(

(

).

(

)

:

?



---

**1.**

1. 200 200 .  
?  
200200200...200 ,, “ 200  
3 · 200 = 600 .  
0,  
2 · 200 = 400 .

2. 2006 2006 .  
2006- ?  
2006 = 4 · 501 + 2 . , 2004-  
6, 2005- 2 2006-  
0.

3. 179 100 ( ).  
1) ?  
2) 179- ?  
. 1) 179 100 ,  
3 · 100 = 300 .  
2) 179 = 3 · 59 + 2 , 179-  
179, 7.

4. 2015 2015 ,  
) ?  
) 2015- ?  
. ) 2015 4 2015 ,  
4 · 2015 = 8060 .  
) 2015 = 4 · 503 + 3 , 2015-  
2015, 1.

5. 1465830927  
( ) :

)  
 )  
 . )  
 6, " 1 4. " , ...  
 ,  
 5, 8, 6  
 5 6830927. -  
 ) 7 -  
 .  
 6 8, 1453092. ,  
 6. 812998253 -  
 ( ) :  
 ) ,  
 ) .  
 . ) ,  
 , , .  
 99853.  
 )  
 8129982. , -  
 ,  
 8 9 12982.  
 7. 2545093409  
 ( ) :  
 ) ,  
 ) .  
 . )  
 . , 2,4  
 0 5593409.  
 ) -  
 , ... 9 . ,



, 5 5, 2409340.  
 8. 6250945068 -  
 ( ) :  
 ) ,  
 ) . ) -  
 . ,  
 . 0,  
 6 5,  
 9, 5.  
 204068.  
 ) 8,6 0  
 6250945.  
 . ,  
 2. 650945.  
 9. 4709,  
 2 5 :  
 ) ,  
 ) .  
 . ) 5 > 4, 2 > 0 5  
 4, 2 0. :  
 547209.  
 ) 2 < 4, 5 < 7, 2 4,  
 5 7. 245709.  
 10. , 52206,  
 1,8 0 :  
 ) ,  
 ) .  
 . ) 8 > 5 1 > 0, 8  
 5, 1 0. 0  
 85221060.

)  $0 < 5$   $1 < 5$ ,  $0$   $1$   
 $5$ ,  $8$  .  $10522068$ .  
 $0$ ,

11.  $a$   $b$   
 $533780$  :  
 $ab533780, ba533780, 533780ab, 533780ba, a533780b, b533780a$  .

$427457$  ,  $a = 0$   $b = 4$ ?  
 $\cdot$   $\cdot$  ,  $0$   
 $\cdot$

42. ,  $40427457$ .

$42$ . ,  $44274570$ .  
 $\cdot$  ,  $0$   
 $\cdot$  :  $40427457, 44274570,$   
 $42745740$   $42745704$ .  $40427457,$   
 $44274570$ .

12.  $68364$   $5$   
:  
)  
)  
 $\cdot$  )  $5$   $685364$ .  
)  
 $5$   $5$  -  
 $5$   $5$  .  
 $658364$ .

13.  $9, 5, 0, 4, 2$   
 $\cdot$  -  
 $\cdot$  , -  
 $\cdot$  . -  
 $99955445$ .

---

20002245.

14. 7525 25 17  
8517 1734 17?  
8517 17 1734 17  
8517 : 17 = 501  
1734 : 17 = 102

15. 30,  
0, 4 5.  
 $30 = 4 + 4 + 4 + 4 + 4 + 5 + 5 + 0 + 0 = 5 + 5 + 5 + 5 + 5 + 5 + 0 + 0 + 0,$   
555555000,  
400444455.

16. :

2002	
304	
25	
513	

4321?

, , 4321 :

17. :

14	
203	
110	

454.

18.

1 5

:

)

)

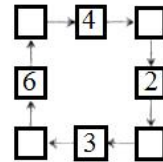
. )

76548.

)

847253.

7, 8,



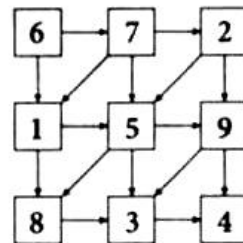
19.

15834

615934,  
16753

3594.

?



6 7.

615834,

725934.

20.

4 7 0 9

2 5

:  
 ) ,  
 ) .  
 . ) , 5  
 , 5 , 2.  
 2 , 5 0, , 547209.  
 ) 2  
 ,  
 5. 245709.

21.  
 5 2 2 0 6  
 1, 8 0  
 :  
 ) ,  
 ) .  
 . ) -  
 85221060.  
 )  
 10522068.

22. 664422 3  
 :  
 ) ,  
 ) .  
 . ) 3  
 .  
 6644322.  
 ) 3 -  
 3 .  
 6364422.

23.  
 ) , ) ,  
 42.  
 . ,  
 9.  $4 \cdot 9 < 42 < 5 \cdot 9$ ,

9. ,  $42 - 4 \cdot 9 = 6$ ,  
6.  
, :

) , 0,  
6 9999600,  
) , -  
, 9999501.

24. :  
) , )  
53.  
.  
, 9.  $5 \cdot 9 < 53 < 6 \cdot 9$ ,  
9,  
 $53 - 45 = 8$ . ,  
,  
0.  
) , ,  
0, 99999800.  
) , -  
, 1, 99999701.

25. 1, 2, 3, 4, 5, 6 ( )  
:  
) ,  
) ,  
) ,  
) . 6  
, )  
5, 4 3. , , 642 531,  
1173.  
) 1 2,  
3 4. , , 246 135,  
381.  
)  
,  
654 123, 531.  
) -

,

,

.

47. 412 365,

26.

:

) ,

) ,

) ,

) .

. )

8 9, 6 7, 4 5, 2 3

0 1. , , 97531 86420,

183951.

) 1 2,

3 0, 4 5, 6 7, 8 9.

, 20468 13579, 34047.

) ,

, 98765 10234, 88531.

) -

5 4, -

0, 1, 2 3, ,

9, 8, 7 6, .

50123 49876, 247.

27.

,

527906 957206.

651870?

. 150876. 1

6, 6

0, .

28.

38, 66, 4 1.

$$(438 - 661) \cdot ?$$

$$1 \cdot 3, \dots \quad 384 - 166$$

$$384 + 166 = 550.$$

$$4 \cdot 9 (\boxed{66} \cdot \boxed{99}), \dots$$

$$428 + 991 = 1429.$$

29.  $\boxed{80}$   $\boxed{66}, \boxed{59}, \boxed{90}$   
2007?

$$\boxed{99}, \boxed{59}, \boxed{06} \cdot \boxed{80} \quad 8006 - 5999,$$

$$8006 - 5999 = 2007.$$

30. :

$$) 2563 + 437 \cdot 6, \quad ) 19755 : 5 - 2637, \quad ) 145 \cdot 9 + 2028 : 26.$$

$$. ) : 2563 + 437 \cdot 6 = 2563 + 2622 = 5185.$$

$$) : 19755 : 5 - 2637 = 3951 - 2637 = 1314.$$

$$) : 145 \cdot 9 + 2028 : 26 = 1305 + 78 = 1383.$$

31. :

$$A = 1325 : 5 + 15 : 5 - (99 - 9 : 9) \cdot 2 - 35 - 30.$$

$$:$$

$$A = 1325 : 5 + 15 : 5 - (99 - 9 : 9) \cdot 2 - 35 - 30$$

$$= 265 + 3 - (99 - 1) \cdot 2 - 35 - 30$$

$$= 268 - 98 \cdot 2 - 35 - 30$$

$$= 268 - 196 - 35 - 30$$

$$= 72 - 35 - 30$$

$$= 37 - 30$$

$$= 7.$$

32. 8 .

$$182. \quad , \quad 266.$$

?



$$4 \cdot 182 = 728, \quad 3 \cdot 266 = 798.$$

$$798 - 728 = 70.$$

33.  $a + b - c = 1512.$   
 $500?$   
 $a \quad b \quad 500 \quad -$   
 $a + b \quad 1000. \quad c$   
 $500, \quad 500. \quad , \quad a + b - c \quad -$   
 $1000 - 500 = 500. \quad , \quad 2012.$

34.  $a \cdot b : c = 671.$   
 $a, b, c$   
 $, a \cdot b : c = (a \cdot b) : c.$   
 $3 \quad , \quad a \cdot b \quad 9 \quad . \quad c$   
 $3 \quad ( \quad ) \quad (a \cdot b) : c \quad 3 \quad .$   
 $, \quad (671 \cdot 9) : 3 = 2013.$

35.  $:$   
 $1 + 3 + 5 + \dots + 2007 + 2009.$   
 $1005$   
 $502- \quad 503- \quad ,$   
 $1 + 2009 = 3 + 2007 = \dots = 1003 + 1007 = 2010.$   
 $1005$   
 $1 + 3 + \dots + 2007 + 2009 = (1 + 2009) + (3 + 2007) + \dots + (1003 + 1007) + 1005$   
 $= 502 \cdot 2010 + 1005$   
 $= 1010025.$

36.  $2009 - 2007 + 2005 - 2003 + \dots + 9 - 7 + 5 - 3 + 1.$   
 $1005$   
 $, \quad ( \quad 502 \quad )$   
 $2009 - 2007 = 2005 - 2003 = \dots = 9 - 7 = 5 - 3 = 2.$   
 $2009 - 2007 + 2005 - 2003 + \dots + 9 - 7 + 5 - 3 + 1 = 502 \cdot 2 + 1 = 1005.$

37.

$$S = 1 + 11 + 21 + 31 + \dots + 1981 + 1991 + 2001 + 2011.$$

0, 1, 2, 3, 4, ..., 198, 199, 200, 201.

$$\begin{aligned} S &= 1 + 11 + 21 + 31 + \dots + 1981 + 1991 + 2001 + 2011 \\ &= (1 + 2011) + (11 + 201) + (21 + 1991) + (31 + 1981) + \dots + (1001 + 1011) \\ &= 101 \cdot 2012 = 100 \cdot 2012 + 2012 = 203212. \end{aligned}$$

38.

$$A = 11 + 111 + 211 + 311 + \dots + 1811 + 1911 + 2011.$$

$$\begin{aligned} A &= 11 + 111 + 211 + 311 + \dots + 1811 + 1911 + 2011 \\ &= 11 + (111 + 2011) + (211 + 1911) + \dots + (1011 + 1111) \\ &= 11 + 10 \cdot 2122 = 11 + 21220 = 21231. \end{aligned}$$

39.

$$200920092009 \dots 20092009 \text{ ( } 2009 \text{ )}.$$

$$2009 \quad 200920092009 \dots 20092009 \text{ ( } 2010 \text{ )}.$$

40.

$$2023. \quad ?$$

41.

$$2010$$

100 ( )

$$\begin{aligned} 2010 &= 2 \cdot 3 \cdot 5 \cdot 67, & : \\ 2010 &= 1 \cdot 2 \cdot 3 \cdot 5 \cdot 67, \\ 2010 &= 1 \cdot 1 \cdot 6 \cdot 5 \cdot 67, \\ 2010 &= 1 \cdot 1 \cdot 3 \cdot 10 \cdot 67, \\ 2010 &= 1 \cdot 1 \cdot 2 \cdot 15 \cdot 67, \\ 2010 &= 1 \cdot 1 \cdot 1 \cdot 30 \cdot 67. \end{aligned}$$

42.  $17$  .

1,

1.

,

$$\begin{aligned} \underbrace{7 \cdot 7 \cdot 7 \cdot \dots \cdot 7 \cdot 7}_{17} &= (7 \cdot 7 \cdot 7 \cdot 7) \cdot (7 \cdot 7 \cdot 7 \cdot 7) \cdot (7 \cdot 7 \cdot 7 \cdot 7) \cdot (7 \cdot 7 \cdot 7 \cdot 7) \cdot 7 \\ &= 2401 \cdot 2401 \cdot 2401 \cdot 2401 \cdot 7, \end{aligned}$$

$17$   $7$ .

43.  $18$  .

$8 \cdot 8 = 64$   $8 \cdot 8 \cdot 8 \cdot 8 = 4096$  ,

$6$   $6$   $6$  ,

4. ,

$$\begin{aligned} \underbrace{8 \cdot 8 \cdot \dots \cdot 8}_{18} &= (8 \cdot 8 \cdot 8 \cdot 8) \cdot (8 \cdot 8 \cdot 8 \cdot 8) \cdot (8 \cdot 8 \cdot 8 \cdot 8) \cdot (8 \cdot 8 \cdot 8 \cdot 8) \cdot (8 \cdot 8) \\ &= 4096 \cdot 4096 \cdot 4096 \cdot 4096 \cdot 64 \\ &= \dots 6 \cdot 64 = \dots 4, \end{aligned}$$

$18$   $4$ .

44.  $x$   $y$  -

,

$11$ .

$x - y$ .

$300 = 27 \cdot 11 + 3$  ,

$11$   $308$  ,  $400 = 36 \cdot 11 + 4$  ,

$11$   $396$ .

,

$396 - 398 = 88$  .

45.

$$\begin{aligned} & : \\ ) \quad & 5 \cdot 500 \cdot 5000x = 125 \cdot 2000 \cdot 3000, \\ ) \quad & 650 + 360 + 790 + 570 = (65 + 36 + 79 + 57)x. \end{aligned}$$

. )

:

$$\begin{aligned} 5 \cdot 5 \cdot 100 \cdot 5 \cdot 1000x &= 5 \cdot 5 \cdot 5 \cdot 2 \cdot 1000 \cdot 3 \cdot 1000, \\ 100x &= 2 \cdot 3 \cdot 10 \cdot 100, \\ x &= 60. \end{aligned}$$

)

$$\begin{aligned} 65 \cdot 10 + 36 \cdot 10 + 79 \cdot 10 + 57 \cdot 10 &= (65 + 36 + 79 + 57)x, \\ (65 + 36 + 79 + 57) \cdot 10 &= (65 + 36 + 79 + 57)x \\ x &= 10. \end{aligned}$$

46.

$$\begin{aligned} & : \\ ) \quad & 31 \cdot 400 \cdot 7000x = 124 \cdot 2000 \cdot 14000, \\ ) \quad & 6400 + 3600 + 4600 + 5800 = (32 + 29 + 23 + 18)x. \end{aligned}$$

. )

:

$$\begin{aligned} 31 \cdot 400 \cdot 7000x &= 124 \cdot 2000 \cdot 14000, \\ 31 \cdot 4 \cdot 100 \cdot 7 \cdot 1000x &= 31 \cdot 4 \cdot 2 \cdot 1000 \cdot 7 \cdot 2 \cdot 1000, \\ x &= 2 \cdot 10 \cdot 2, \\ x &= 40. \end{aligned}$$

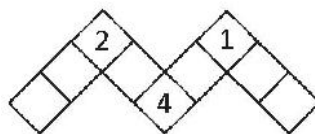
)

$$\begin{aligned} 6400 + 3600 + 4600 + 5800 &= (32 + 29 + 23 + 18)x, \\ 200(32 + 29 + 23 + 18) &= (32 + 29 + 23 + 18)x, \\ x &= 200. \end{aligned}$$

47.

3, 5, 6, 7, 8 9,

,



”

“

.

”

“

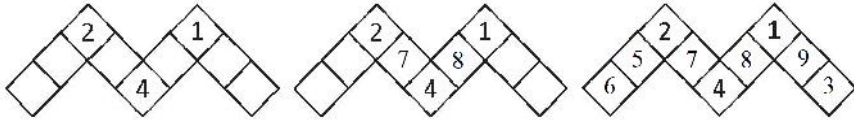
1 9

2, 4 1

$$(1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9) + (2 + 4 + 1) = 45 + 7 = 52,$$

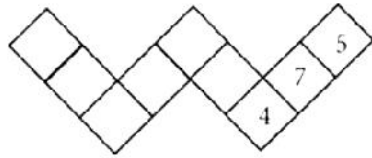
$52:4=13.$

7, “ 2 4  
 ” “ 4 1 8.  
 11, ” “ 2  
 12. 4 ,



48.

1, 2, 3, 6, 8 9



”

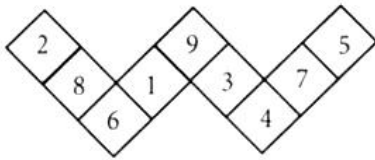
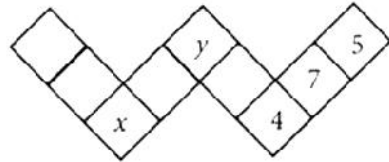
$x = y$  ( ),

$45 + 4 + x + y = 4 \cdot 16,$

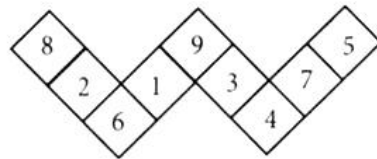
$x + y = 15.$

$x = 6, y = 9$

$x = 9, y = 6.$



ИЛИ



49.

▲	■		●	14
■	♥	■		16
♥	▲	●	▲	23
●	■	●	▲	15
20	24	7	17	

.(

.)

$$20 - 14 = 6, \quad 6.$$

$$16, \\ 16 - 6 = 10, \\ 10 : 2 = 5.$$

$$7 \\ 7 - 5 = 2.$$

$$2 : 2 = 1. \\ 17$$

$$17 - 1 = 16, \\ 16 : 2 = 8.$$

50. 1, 2, 3, 4, 5 6,

750.

?

?

750.

0, \\ 4 6.

1,

1,

2, 3 5,

5

1 3.

2 5. ,

	536	534	516	514
	214	216	234	236
	322	318	282	278

, 4 , \\ 536 214.

51.

:

$$1 \cdot 2 \cdot 3 \cdot 4 \cdot 5 \cdot 6 \cdot 7 \cdot 8 = 2006.$$

.

$$1 \cdot 2 \cdot (3 + 4 \cdot 5 \cdot (6 \cdot 7 + 8)) = 2006.$$

52.

$$9\ 8\ 7\ 6\ 5\ 4\ 3\ 2\ 1 = 2010.$$

( )

$$: 2010 = 503 \cdot 4 - 2 \quad 9 \cdot 8 \cdot 7 = 504$$

$$(9 \cdot 8 \cdot 7 - 1) \cdot 4 - 2 = 2010,$$

$$(9 \cdot 8 \cdot 7 - 6 + 5) \cdot 4 - 3 + 2 - 1 = 2010.$$

53.

$$999999999999 = 2020$$

$$: 999 + 999 + 99 : 9 + 99 : 9 = 2020,$$

$$9999 : 9 + 99 \cdot 9 + 9 + 9 - 9 + 9 = 2020,$$

$$9999 : 9 + 99 \cdot 9 + 9 \cdot 9 : 9 + 9 = 2020.$$

54.

( )

).

$$A, \overline{BC}, \overline{BD}, \overline{CE}, \overline{FF}$$

9.

$$C = 2 \quad F = 3. \quad 20, \quad B = 1.$$

$$A, 12, \overline{1D}, \overline{2E}, 33.$$

d

$$33 - 12 = 3d, \quad \therefore d = 7.$$

$$5, 12, 19, 26, 33.$$

55.

:

$$\begin{array}{r}
 \square \triangle \\
 \triangle \circ \\
 + \circ \square \\
 \hline
 \square \triangle \circ
 \end{array}$$

10.  $\square \triangle$   
 1  $\square$  20, 1,  $\circ$  9 ( ). 10,  
 $\square$  1,  $\triangle$  10-1=9. ,  
 $\circ$  8, ,  
 19  
 98  
+ 81  
 198

56.

$$\begin{array}{r}
 AB - C = D \\
 + \quad : \quad + \\
 \hline
 A + E = F \\
 AA - E = G.
 \end{array}$$

$B + A = A,$   
 $B = 0.$  ,  $A = 1.$  ,  
 $C : E = E,$   $C = E \cdot E.$  ,  
 $E = 2, C = 4$   $E = 3, C = 9.$  ,  $C$  9,  
 $D = 1 = A,$   $A.$  ,  $C = 4, E = 2.$   $D = 10 - 4 = 6,$   
 $F = 1 + 2 = 3$   $G = 11 - 9 = 9 - 6 + 3.$

$$\begin{array}{r}
 10 - 4 = 6 \\
 + \quad : \quad + \\
 \hline
 1 + 2 = 3 \\
 11 - 2 = 9.
 \end{array}$$



57.  $\overline{AB} + \overline{BC} + \overline{CA} = \overline{ABC}$ ,  
 $\overline{AB} + \overline{BC} + \overline{CA} = \overline{ABC}$ ,  $10C + B = 89A$ .  
 $A = 1, B = 9, C = 8$ ,  
 $19 + 98 + 81 = 198$ .

58.  $A + B = \overline{CD}, E + F = G, H + I = J$ .  
 $0$   
 $A + B = 10, E + F = G, H + I = J$ .  
 $4 + 6 = 10, 2 + 7 = 9, 3 + 5 = 8$ ,  
 $3 + 7 = 10, 4 + 5 = 9, 2 + 6 = 8$ ,

59.  $\overline{AR} + H + I = \overline{MED}$   $P \cdot S = F$ ,  
 $F ?$   
 $P \cdot S = F$   $F$   $6, 8$ ,  
 $2 \cdot 3 = 6, 2 \cdot 4 = 8$ ,  $F = 8$ ,  $A = 9, M = 1$ ,  
 $0, 3, 5, 6, 7$   $\overline{9R} + H + I = \overline{1ED}$ .  
 $0, 3, 5, 6, 7$   $8, 18$ ,  
 $R + H + I \geq 10$   $E = 0$ ,  
 $\overline{9R} + H + I = \overline{10D}$ .  $R + H + I = 10 + D$   
 $R, H, I, D$   $3, 5, 6, 7$   
 $( ? )$ ,  
 $F = 6$ ,  $M = 1$ ,  $\overline{AR} + H + I = \overline{1ED}$ ,

$$\begin{array}{llll}
 A=8 & A=9. & A=8, & E=0, \\
 R+H+I=20+D & & R,H,I,D & 4, 5, 7, 9
 \end{array}$$

$$R+H+I \leq 9+7+5 < 20+4 \leq 20+D.$$

$$\begin{array}{llll}
 A=9, & & E=0, & \\
 R+H+I=10+D & & R,H,I,D & 4, 5, 7, 8 \\
 & & D=7 & R,H,I
 \end{array}$$

$$94+5+8=107, 2 \cdot 3=6.$$

60.

$$\overline{MK} + \overline{MK} = \overline{AMS}$$

( )

$$95+95=190, \quad 96+96=192, \quad 97+97=194, \quad 98+98=196.$$

61.

$$\overline{MK} + \overline{MK} + \overline{MK} = \overline{AMS}$$

( )

$$A=1 \quad A=2. \quad A=1 \quad M=4 \quad M=5,$$

:

$$49+49+49=147,$$

$$52+52+52=156,$$

$$53+53+53=159.$$

$$A=2 \quad M=9,$$

$$97+9797=291,$$

$$98+98+98=294.$$

62.

$$\overline{MK} + \overline{MK} + \overline{MK} + \overline{MK} = \overline{AMS}$$

( )

$$\begin{aligned}
 & \quad \quad \quad ) \\
 & \quad \quad \quad : \\
 & 34 + 34 + 34 + 34 = 136, \quad 65 + 65 + 65 + 65 = 260, \\
 & 67 + 67 + 67 + 67 = 268, \quad 98 + 98 + 98 + 98 = 392.
 \end{aligned}$$

63.

$$\overline{MK} + \overline{MK} + \overline{MK} + \overline{MK} + \overline{MK} = \overline{AMS}$$

(

)

$$5 \cdot \overline{MK} = \overline{AMS},$$

$$50M + 5K = 100A + 10M + S,$$

$$S = 5(8M + K - 20A).$$

$$, S = 0 \quad S = 5.$$

$$S = 0, \quad K = 4(5A - 2M), \quad K = 4 \quad K = 8.$$

$$K = 4, \quad 5A = 2M + 1, \quad M = 2, A = 1$$

$$M = 7, A = 3. \quad K = 8, \quad 5A = 2M + 2,$$

$$M = 4, A = 2 \quad M = 9, A = 4$$

$$S = 5, \quad 1 = 8M + K - 20A, \quad K = 4(5A - 2M) + 1$$

$$K = 1 \quad K = 9. \quad K = 1, \quad 5A = 2M,$$

$$M = 5, A = 2 \quad M = 7, A = 3. \quad K = 9, \quad 5A = 2M + 2,$$

$$M = 5, A = 2.$$

,

:

$$24 + 24 + 24 + 24 + 24 = 120,$$

$$48 + 48 + 48 + 48 + 48 = 240,$$

$$49 + 49 + 49 + 49 + 49 = 245,$$

$$74 + 74 + 74 + 74 + 74 = 370,$$

$$98 + 98 + 98 + 98 + 98 = 490.$$

64.

$$\overline{LETO} + \overline{LETO} = \overline{ODMOR}$$

(

)

$$O = 1,$$

$$R = 2, \quad T + T, \quad O = 1.$$

65.

$$\overline{SON} + \overline{SLON} = 2006.$$

$20 \quad 2N, \quad 2N$   
 $1, \quad 2N$   
 $2N < 10, \quad 2N = 6, \dots N = 3, \quad S = 1,$   
 $2200.$   
 $20, \quad 0, \quad O = 0 \quad O = 5. \quad O = 0$   
 $L = 9, \quad O = 5 \quad L = 8.$   
 $: 103 + 1903 = 2006 \quad 153 + 1853 = 2006.$

66.

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

$: 15 \cdot 4 = 60 \quad 29 \cdot 3 = 87.$

67.

$$\overline{TRI} + \overline{PET} = \overline{OSUM},$$

$$\begin{aligned}
 &235 + 862 = 1097, \quad 254 + 782 = 1036, \quad 263 + 782 = 1045, \quad 283 + 762 = 1045, \\
 &296 + 742 = 1038, \quad 325 + 743 = 1068, \quad 345 + 723 = 1068, \quad 359 + 683 = 1042, \\
 &364 + 893 = 1257, \quad 382 + 693 = 1075, \quad 408 + 954 = 1362, \quad 436 + 854 = 1290, \\
 &456 + 834 = 1290, \quad 468 + 904 = 1372, \quad 482 + 594 = 1076, \quad 508 + 965 = 1473, \\
 &567 + 835 = 1402, \quad 573 + 495 = 1068, \quad 584 + 725 = 1309, \quad 593 + 475 = 1068, \\
 &608 + 926 = 1534, \quad 632 + 946 = 1578, \quad 652 + 746 = 1398, \quad 653 + 826 = 1479, \\
 &683 + 726 = 1409, \quad 705 + 687 = 1392, \quad 723 + 867 = 1590, \quad 735 + 907 = 1642, \\
 &745 + 937 = 1682, \quad 763 + 827 = 1590, \quad 804 + 568 = 1372, \quad 826 + 708 = 1534, \\
 &852 + 638 = 1490, \quad 864 + 508 = 1372, \quad 869 + 458 = 1327, \quad 904 + 679 = 1583, \\
 &908 + 349 = 1257, \quad 925 + 809 = 1734, \quad 965 + 309 = 1274, \quad 976 + 409 = 1385.
 \end{aligned}$$

68.

$$\overline{MK} \cdot \overline{MK} = \overline{AMS}$$

(

)

10,

31.

$$10 < \overline{MK} < 31.$$

22

0, 1, 5 6.

12, 13, 14, 17, 18, 19, 23, 24,

27, 28 29.

$$23 \cdot 23 = 529.$$

69.

$$\underline{\underline{OSUM \cdot OSUM}}$$

\*\*\*\*

\*\*\*\*

\*\*\*\*

\*\*\*\*\*

$$U = 0.$$

$$O = 3,$$

$$O < 3,$$

$$O > 3,$$

M

3,

$$A = 0$$

$$O = 3,$$

1,

2.

$$S = 2, M = 1,$$

$$3102^2 = 9622404$$

$$3201^2 = 10246401.$$

70.

.	8	25
3	24	75
7	56	175

.		
	81	30
	108	

1.

$81 = 3 \cdot 27$      $30 = 3 \cdot 10$

3.

$27 \cdot 10 = 108$  ,     $108 : 27 = 4$

4

$4 \cdot 10 = 40$  .

.	27	10
3	81	30
5	108	40

71.

.	8	25
3	23	75
7	56	175

:

.		
	606	
	505	5000

$505 = 5 \cdot 101$      $5000 = 5 \cdot 1000$  ,

5,

101 (

$606 = 6 \cdot 101)$ .

:

.	101	1000
6	606	6000
5	505	5000

72.

:

.			
	56		1000
	21	81	

$56 = 7 \cdot 8$      $21 = 7 \cdot 3$

7,

8 3, -

:

.	7	17	125
8	56	216	1000
3	21	81	375

73. ) 15 ( 10 )  
 ) ( -  
 ) ,

:

.			
	35	63	
		99	44
			404

.  $35 = 5 \cdot 7, 63 = 7 \cdot 9, 99 = 9 \cdot 11, 44 = 4 \cdot 11$

.	5	9	4
7	35	63	
11		99	44
			404

,  $404 : 4 = 101$ , -  
 :

.	5	9	4
7	35	63	28
11	55	99	44
101	505	909	404

74. )  
 ) ?  
 ) ?  
 ) • 1000 • :  
 ) 999  
 ) •  
 ) •

75. )  
 ) ?  
 )

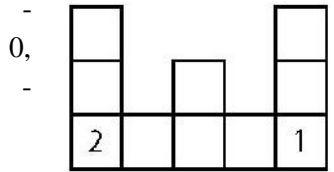
?  
 . )  
 )  
 11 .

,  
 1000 .  
 13 , 100  
 2 .

76.

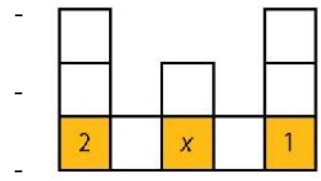
3, 4, 5, 6, 7, 8 9

14.



14,

$4 \cdot 14 = 56.$



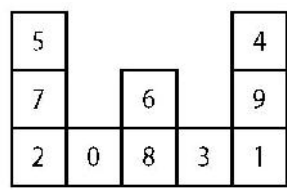
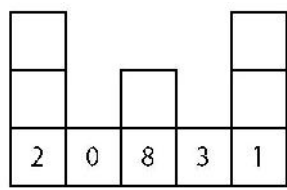
2, x, 1,

$0+1+2+3+4+5+6+7+8+9+(2+x+1) = 56,$   
 $48+x=56,$   
 $x=8.$

14,

$2+8+1=11,$

0 3 ( ) , 8  
 6, 4, 5, 7 9. , 2  
 5 7, 1  
 4 9.

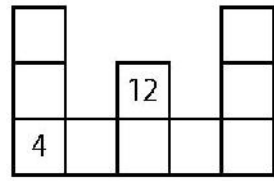


77.

2, 6, 8, 10, 14, 16 18

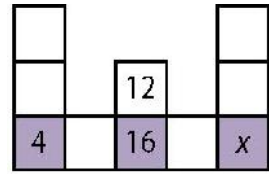
28.

0,

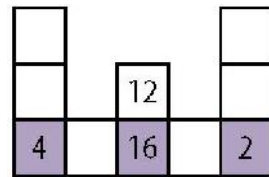




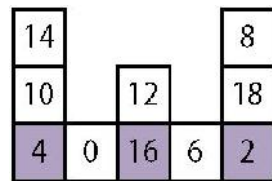
$28 - 12 = 16.$   
 $4 \cdot 28 = 112.$   
 $112$   
 $0 + 2 + 4 + 6 + 8 + 10 + 12 + 14 + 16 + 18 = (4 + 16 + x) = 112,$   
 $110 + x = 112,$   
 $x = 2.$



$4 + 16 + 2 = 22.$   
 $6.$   
 $0 \quad 6$   
 ( )

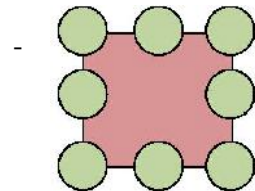


$8, 10, 14 \quad 18$   
 $28.$   
 $10 \quad 14,$   
 $8 \quad 18$  ( )

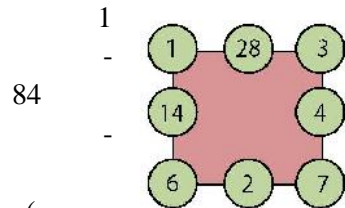


78.  $1, 2, 3, 4, 6, 7, 14 \quad 28$

$84.$   
 $84 : 28 = 3,$   
 $1, 28 \quad 3$

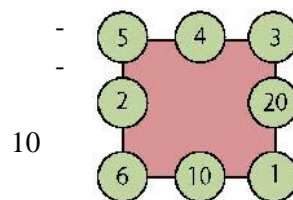
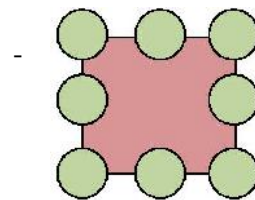


$28$   
 $14 \quad 6$  ( )  
 $14 \quad 6).$   
 $7$   
 $2 \quad 4$   
 ).



79. 1, 2, 3, 4, 5, 6, 10 20

3, 6  
 4  
 2 10,  
 20. 5



80.

	4	
10		
5		7

$x$  ( ),

$$x + 10 + 5 = x + 15.$$

$$x + 15 - (x + 7) = 8.$$

$$x + 15 - (x + 4) = 11$$

( ).

$x$	4	
10		
5		7

$x$	4	11
10	8	
5		7

$$5 + 8 + 11 = 24,$$

24.

$$, x = 24 - 15 = 11.$$

9	4	11
10	8	6
5	12	7

81.

11	6	
		8
7		

( ),  
 $11+6+x=17+x.$

$17+x-(8+x)=9,$

$17+x-(7+x)=10,$

11	6	$x$
		8
7		

11	6	$x$
	10	8
7		9

$x=30-17=13.$

$11+10+9=30,$

11	6	13
12	10	8
7	14	9

82.

„ “ ( ),  
 ( )  
 ).

0	1	2	3	4	5	6	7	8	9


(1)

(2)

30.

(3)

(1)

(2)

(3)

11		
12	10	
7		

11	6	13
12	10	8
7	14	9


83.

24, 25, 26, 27, 28, 29, 30, 31, 32

( )  
 ),


)

$$\frac{24+25+26+\dots+32}{3} = 84.$$

	2								
	3								
			28						
						8			
0				1					

0	1	2	3	4	5	6	7	8	9

84.  $3 \times 3$

2007.

$$2007 : 3 = 669,$$

669, : 665, 666, 667,  
668, 669, 670, 671, 672 673.

672	665	670
667	669	671
668	673	666

1, 2, 3, 4, 5, 6, 7, 8, 9 15.

$$(2007 - 15) : 3 = 664,$$

664

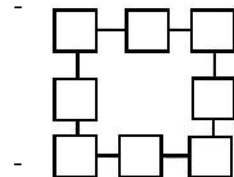
2007.

8	1	6	+	664	664	664	=	672	665	670
3	5	7		664	664	664		667	669	671
4	9	2		664	664	664		668	673	666

85. 1, 2, 3, 4, 5, 6, 7 8

13.

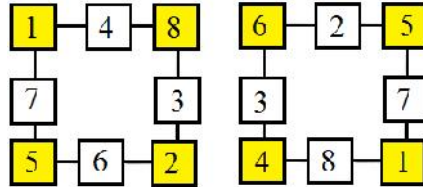
$$1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 = 36,$$



$$4 \cdot 13 = 52,$$

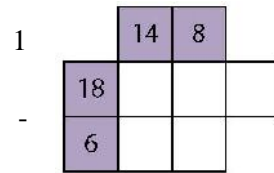
56

$$56 - 36 = 16.$$



86.

9



5, 2 4.

6,

14,

1

9

2

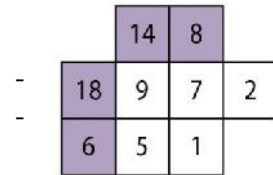
9 5,

14.

1

5 1.

9 5,

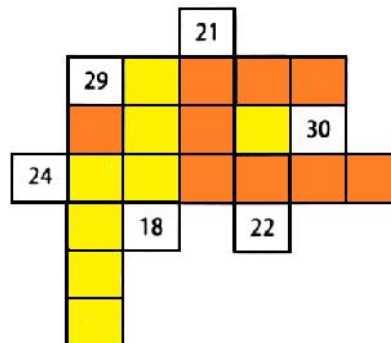


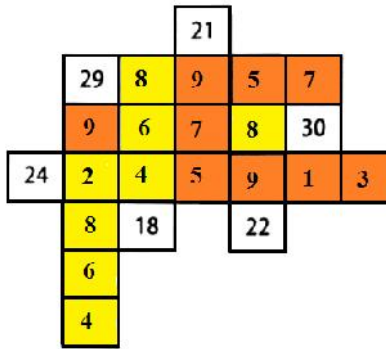
9, 7 2.

7 1,

87.

1 9

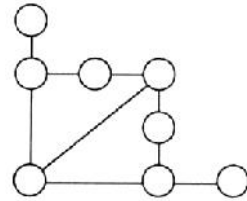




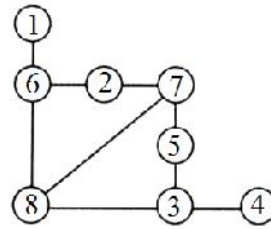
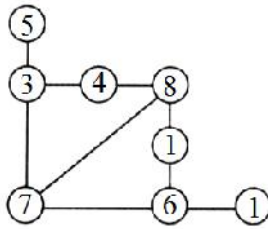
88. 6, 7, 8,

1, 2, 3, 4, 5,

15.



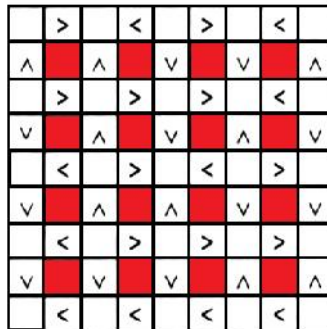
7 8.



89.

1 5

> <.



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

4	>	1	<	5	>	2	<	3
^	■	^	■	v	■	v	■	^
5	>	3	>	2	>	1	<	4
v	■	^	■	v	■	^	■	v
3	<	4	>	1	<	5	>	2
v	■	^	■	^	■	v	■	v
2	<	5	>	4	>	3	>	1
v	■	v	■	v	■	^	■	^
1	<	2	<	3	<	4	<	5

90.

) *AABB, CDD, CB, B*,

) *ABB, CAA, CB, B*,

.)  
 . )  $C = 1$ .

100,

200,

144

$A \cdot B$ .

$D = 4$ ,

$B = 6$ .

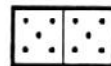
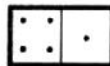
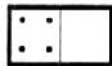
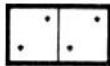
$A = 2$ .

2266, 144, 16, 6.

)

466, 144, 16, 6.

91.

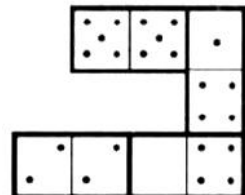


551 4

,  $551 \cdot 4 = 2204$ .

551

2204 ( ).



92.



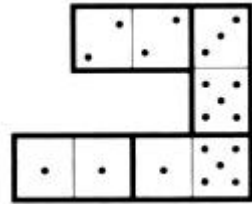
223 5

223

,  $223 \cdot 5 = 1115$ .

1115 (

).





---

2.

1.

∴ „ 2007, „ ?  
• , -  
• 99, , -  
2007 - 99 = 1908 .

2.

∴ „ 9863 , „ ?  
• , -  
• 9999 , -  
9999 - 9863 = 136 . , 9999  
136, 9999 + 136 = 10135 .

3.

• , -  
• 2205. , -  
• , -  
• 100 , -  
• 103 , -  
• 105 , -  
2205 : 105 = 21 .

4.

( ) .  
50  
7296 .

$$102x + 50x = 152x \quad , \quad 152x = 7296 \quad , \quad x = 7296 : 152 = 48 .$$

5.

$$\overline{abcd} = 100\overline{ab} + \overline{cd} = 100\overline{ab} + 2\overline{ab} = 102\overline{ab} .$$

$$102\overline{ab} + 10\overline{ab} = 112\overline{ab} \quad , \quad 112\overline{ab} = 2800 \quad ,$$

$$\overline{ab} = 2800 : 112 = 25 .$$

6.

$$998 - 989 = 9 \quad , \quad \dots$$

$$999 - 989 = 10 .$$

$$999 + 10 = 1009$$

7.

$$9999 - 100 = 9899$$

$$9999 + 100 = 10099 .$$

8.

$$A = 2013 \quad B . \quad -$$

$$A = 2013 \quad 2013 : 3 = 671 . \quad -$$

,  $B = 8 \cdot 671, \dots B = 8 \cdot 671 = 5368.$

9.  $B = 2448,$   $A = 2448 : 8 = 306.$   
 $B = 3 \cdot 306 = 918,$   $A = 918 \cdot 5 = 4590,$   $A = 4590 \cdot 2 = 9180.$

10.  $2013 - 2013 = 20000 + 13 - (2000 + 13) = 20000 - 2000 = 18000.$   
 $01 - 0,$   $200013,$   
 $200013 - 2013 = 200000 + 13 - (2000 + 13) = 200000 - 2000 = 198000.$   
 $01 - 0,$   $2000013,$   
 $2000013 - 2013 = 2000000 + 13 - (2000 + 13)$   
 $= 2000000 - 2000 = 1998000.$

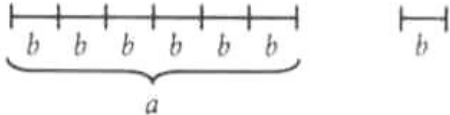
11.  $2014 - 2014 = (20000000 + 14) - (2000 + 14)$   
 $= 20000000 - 2000 = 19998000.$   
 $01 - 19998000.$

12.  $15 - 4 = 11.$   
 $16 : 4 = 4,$

13.  $119,$  ?

$a = 6b, \quad a + b = 119.$

$6b + b = 119, \dots 7b = 119, \quad b = 119 : 7 = 17 \quad a = 119 - 17 = 102.$



14. ?

$5x, \quad 4x, \quad x,$

$444 \quad 888 (4), \quad 111 \quad 444, \quad 222 \quad 1110.$

15.  $2009.$   $3,$

$3x \quad x - 3, \quad 3x + x - 3 = 2009, \quad x.$

$x = 503, \quad 3 \cdot 503 = 1509,$

$503 - 3 = 500.$

16.  $2340.$   $2,$

$2, \quad 2, \quad ?$

$a, b, c, d.$

$a + 2 = b - 2 = 2c = d : 2, \quad a = 2c - 2, b = 2c + 2, d = 4c.$

$a + b + c + d = 2340,$

$(2c - 2) + (2c + 2) + c + 4c = 2340, \dots 9c = 2340.$

$c = 260 \quad a = 518, b = 522 \quad d = 1040.$

17.  $208.$   $3,$

$3, \quad 3,$

---

3,

?

$a, b, c, d$ .

$$a + 3 = b - 3 = 3c = \frac{d}{3}, \quad a = 3c - 3, b = 3c + 3, d = 9c,$$

$$3c - 3 + 3c + 3 + c + 9c = 208, \quad 16c = 208, \quad \dots c = 13.$$

$$3 \cdot 13 - 3 = 36, 3 \cdot 13 + 3 = 42, 13 \cdot 9 = 117.$$

18. 275.

4, 4, 4, ?

$a, b, c, d$ .

$$a + 4 = b - 4 = 4c = \frac{d}{4}, \quad a = 4c - 4, b = 4c + 4, d = 16c,$$

$$4c - 4 + 4c + 4 + c + 16c = 275, \quad 25c = 275, \quad \dots$$

$$c = 11, \quad 4 \cdot 11 - 4 = 40, 4 \cdot 11 + 4 = 48, 11 \cdot 16 = 176.$$

19. 2010. 1,

2, 3, ?

$$a + b + c = 2010, \quad a + 1 = b - 2 = 3c,$$

$$a = 3c - 1, b = 3c + 2,$$

$$(3c - 1) + (3c + 2) + c = 2010$$

$$7c = 2009, \quad \dots c = 287. \quad a = 860 \quad b = 863.$$

20. 30

30. 6 ?

$x$ .

$$x + 30 \quad 6x - 30, \quad \dots \quad x + 30 = 6x - 30,$$

$$6x - x = 30 + 30, \quad 5x = 60, \quad x = 12.$$

21. 4

?

$x$ ,

$$4x. \quad 4x - x = 3x.$$

3  
 3333, 6666 9999.  
 1111, 2222, 4444,  
 5555, 7777 8888  
 3.  
 1111 4444, 2222 8888,  
 3333 13332.

22. 2012. 4,  
 2 ?  
 4,  
 2, x,  
 4x, x+2.  
 ,  $4x + x + 2 = 2012$  ,  $x = 402$  . , 1608,  
 404.

23. 20122012. 201200,  
 20120, .  
 ?  
 .  $a$   $b$   
 $a + b = 20122012$   $a + 201200 = b - 20120$  .  
 ,  $a + 221320 = b$  ,  $a + a + 221320 = 20122012$  .  
 $a = 9950346$   $b = 10171666$  .

24. 3  
 ?  
 .  $x$   
 2x,  
 4x . ,  $2x + x + 3 = 4x$  . ,  $x = 3$  ,  
 $2x = 6$  .

3. , 6.  
 25. 20 -  
 ?  
 .  $x$   
 2x , 3x 9x -

$$x = 5, \quad , \quad 3x + 2x + 20 = 9x, \\ 3 \cdot 5 = 15.$$

26.  $1234567.$   $2012,$   
 $2,$

?

$$a + b = 1234567$$

$$a + 2012 = b : 2, \quad , b = 2a + 4024,$$

$$a + 2a + 4024 = 1234567,$$

$$3a = 1230543,$$

$$a = 410181$$

$$b = 2 \cdot 410181 + 4024 = 820386.$$

27.  $624.$   
 $56.$

$$a, b, c = a - b$$

$$a + b + c = 624, \quad a + b + a - b = 624,$$

$$2a = 624, \quad \dots a = 312. \quad , b = c + 56,$$

$$a + b + c = 624 \quad 312 + c + c + 56 = 624, \quad 2c = 256.$$

$$, c = 128 \quad b = 128 + 56 = 184.$$

28.  $4030.$   
 $2013.$

$$a, b, c$$

$$a + b + c = 4030 \quad b + c = a, \quad a + a = 4030, \quad \dots$$

$$a = 2015. \quad , c = b + 2013, \quad 2015 + b + b + 2013 = 4030,$$

$$2b = 2, \quad \dots b = 1. \quad , c = 1 + 2013 = 2014. -$$

$$, \quad 2015, \quad 1 \quad 2014.$$

29.  $4$   $27$

?

$$40 + x, \quad x \leq 9. \quad 27,$$

$$40 + x + 27 = 67 + x. \quad 67 + x$$

$$4, \quad x, \quad 10x+4.$$

$$, 10x+4=67+x, \quad 9x=63, \quad x=7.$$

$$, \quad 47.$$

30.  $5$   $36$

$?$

$x \leq 9.$

$$50+x+36=86+x,$$

$$10x+5=86+x, \quad 9x=81, \quad x=9.$$

59.

31.  $?$

$2999,$

$1002.$

$$0 < x - 2999 < 1002, \quad 2999 < x < 4001.$$

$$, x \in \{3000, 3001, \dots, 3999, 4000\}.$$

32.  $92.$

$?$

$x, x+1, x+2, x+3, x+4, x+5, x+6$

$x+7.$

$$x+(x+1)+(x+2)+(x+3)+(x+4)+(x+5)+(x+6)+(x+7)=92,$$

$$\therefore 8x+28=92, \quad x=(92-28):8=64:8=8.$$

$8, 9, 10, 11, 12, 13, 14, 15.$

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

$8$

$$(92-36):8=56:8=7,$$

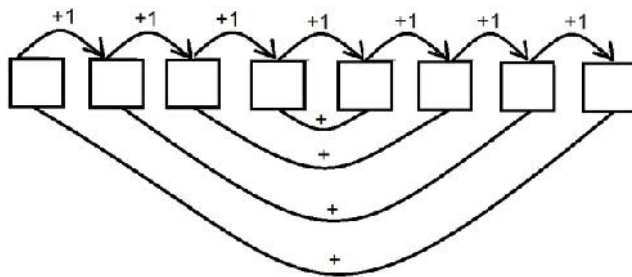


2,3,4,5,6,7,8,9;  
 3,4,5,6,7,8,9,10;  
 4,5,6,7,8,9,10,11;  
 5,6,7,8,9,10,11,12;  
 6,7,8,9,10,11,12,13;  
 7,8,9,10,11,12,13,14;  
 8,9,10,11,12,13,14,15

8, 9, 10, 11, 12, 13, 14 15.

1

1



4

$$92 : 4 = 23$$

$$11 + 12 = 23$$

11 12.

8, 9, 10, 11, 12, 13, 14 15.

33.

24,

14

72.

?

$$72 \cdot 14 = 1008$$

24

$$1008 : 24 = 42$$

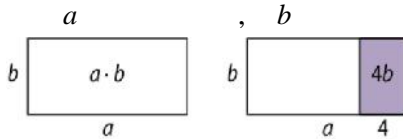
34.

22.

4,

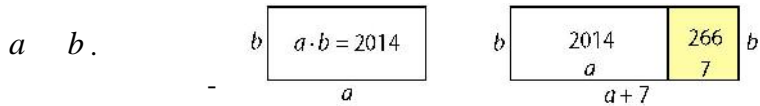
28.

?



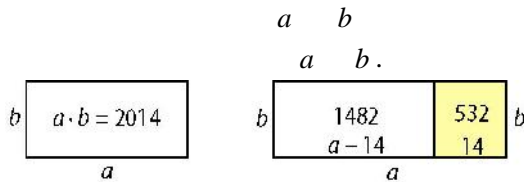
4b.  $4b = 28,$   $b = 7.$  ,  $a + b = 22,$   
 $a = 22 - b = 22 - 7 = 15.$  ,  $7 \cdot 15.$

35.  $2014.$   $7,$   
 $2280.$   $?$



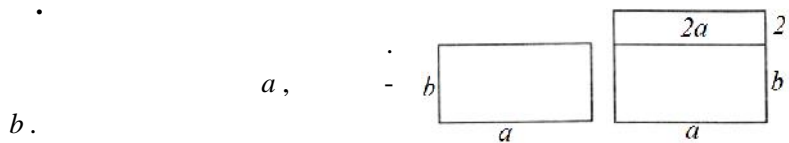
$a \cdot b ( \quad ) .$   
 $7,$   $2280 - 2014 = 266.$   
 $, 7b = 266,$   $b = 266 : 7 = 38.$  ,  $a = 2014 : 38 = 53.$   
 $38 \cdot 53.$

36.  $2014.$   $14,$   
 $1482.$   $?$



$14,$   
 $2014 - 1482 = 532.$  ,  $14b = 532,$   $b = 532 : 14 = 38.$   
 $, a = 2014 : 38 = 53.$  ,  $53 \cdot 38.$

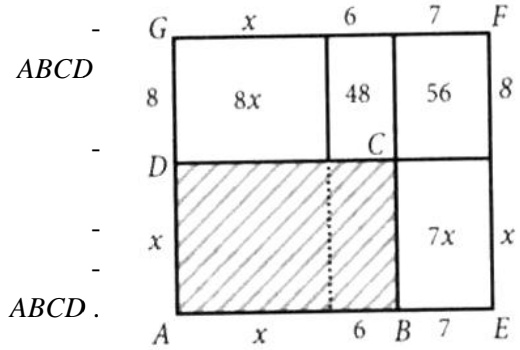
37.  $9.$   $2,$   
 $30.$   $?$



2, 2a,  
 30. , 2a = 30,  
 a = 15. , a - b = 9, . . . 15 - b = 9,  
 b = 6.

38. 7,  
 6. 8,  
 254. ? -

$(x+6)(x+6) = 254$   
 $(x+6)^2 = 254$



$8x + 48 + 56 + 7x = 254$ , . . .  $15x + 104 = 254$ .  
 $x = 10$ .

$x = 10$   $x + 6 = 16$ .

39. 240.  
 60, 24. ?  
 .  $a, b$   $c$ .

$a \cdot b \cdot c = 240, a \cdot b = 60, a \cdot c = 24$ .  
 $(a \cdot b) \cdot c = 240$   $a \cdot b = 60$   $60 \cdot c = 240$   $c = 4$ .  
 $a \cdot c = 24$   $a = 24 : 4 = 6$ . ,  $a \cdot b = 60$  -  
 $b = 60 : 6 = 10$ . , 4, 5 10.

40. 1?  
 58 , 2 ,  
 $2 \cdot 58 = 116$  . 9 -  
 , 9 . -  
 90 ,  $2 \cdot 90 = 180$  .

---

$$116 - 99 = 17$$

$$3 \cdot 17 = 51$$

$$9 + 180 + 51 = 240$$

41.

$$\begin{array}{r} 124 \\ \cdot 5 \\ \hline 2 \cdot 45 = 90 \\ 124, \\ \hline 5 + 90 + 36 = 131 \end{array} \quad ? \quad \begin{array}{r} 5 \\ - \\ - \\ , \\ 124 \\ \hline \end{array}$$
$$3 \cdot 12 = 36$$

42.

$$\begin{array}{r} 9 \\ \cdot 9 \\ \hline 90 \end{array} \quad \begin{array}{r} 357 \\ \cdot 9 \\ \hline 2 \cdot 90 = 180 \end{array} \quad ? \quad \begin{array}{r} 1 \\ - \\ - \\ , \\ \hline \end{array}$$
$$357 - (9 + 180) = 357 - 189 = 168$$
$$168 : 3 = 56$$
$$3 + 9 + 90 + 56 = 158$$

43.

$$\begin{array}{r} 9 \\ \cdot 9 \\ \hline 90 \end{array} \quad \begin{array}{r} 417 \\ \cdot 9 \\ \hline 180 \end{array} \quad ? \quad \begin{array}{r} 1 \\ \hline \end{array}$$
$$417 - 9 - 180 = 228$$
$$228 : 3 = 76$$
$$3 + 9 + 90 + 76 = 178$$

44.

$$\begin{array}{r} 180 \\ \cdot 9 \\ \hline \end{array} \quad \begin{array}{r} 210 \\ \cdot 9 \\ \hline \end{array} \quad \begin{array}{r} 1? \\ - \\ - \\ \hline \end{array}$$

$$210 - (9 + 180) = 21 \quad , \quad 21 : 3 = 7$$

$$106 : 2 = 53 \quad , \quad 9 + 90 + 7 = 106$$

45.

$$364$$

$$?$$

$$4$$

$$4$$

$$90$$

$$45$$

$$164 - (4 + 90) = 270$$

$$270 : 3 = 90$$

$$4 + 45 + 90 = 139$$

$$140$$

$$9$$

$$, 90$$

$$279$$

$$180$$

$$9 + 2 \cdot 90 + 3 \cdot 180 = 729$$

46.

$$1 \quad 9999$$

$$12345...9996999799989999$$

$$?$$

$$9 \cdot 1 = 9$$

$$90 \cdot 2 = 180$$

$$900 \cdot 3 = 2700$$

$$9000 \cdot 4 = 36000$$

$$9 + 180 + 2700 + 36000 = 38889$$

47.

$$123456789...9998999910000$$

$$?$$

$$9$$

$$180$$

$$2700$$

$$36000$$

$$5$$

$$9 + 180 + 2700 + 36000 + 5 = 38894$$

48.

$$1, 2, 3, \dots \quad 312$$



, 2689 672.

53. 1, 2 3 ,  
 444. ?  
 4,  
 2  
 1 3. , 2  
 :  
 $123 + 321 = 231 + 213 = 132 + 312 = 444.$

54. 1, 2, 3 4 24  
 7733.  
 ?  
 3,  
 1 2,  
 $\overline{xy12} + \overline{xy21}.$   
 7,  $\overline{xy} = 34$   
 $\overline{xy} = 43.$  :  
 $4312 + 3421 = 4321 + 3412 = 7733.$

55.  $\overline{xyxyxy}$  2,  
 $\overline{yxxxyx}$  5,  $x \neq y$   
 $\overline{xyxyxy}$  2,  $y \neq 0,$   
 $y \in \{2, 4, 6, 8\}.$  ,  $\overline{yxxxyx}$  5  
 $x \neq 0$   $x = 5.$  :  
 525252, 545454, 565656 585858.

56. 6 9 .  
 15 ( .  
 ).  
 30 ?

$$\begin{aligned}
 & \cdot \quad 30 \quad \quad \quad 6 \quad , \quad - \\
 & \quad \quad \quad 6 \cdot 30 = 180 \quad \cdot \quad , \quad 15- \\
 & 180 : 15 = 12 \quad \cdot \quad ,
 \end{aligned}$$

57.  $16:48$  (16 h 48 min) - 78 min = ?

$$16 \text{ h } 48 \text{ min} + 15 \text{ min} = 16 \text{ h } 63 \text{ min} = 17 \text{ h } 3 \text{ min} .$$

$$17 \text{ h } 3 \text{ min} - 78 \text{ min} = 16 \text{ h } 63 \text{ min} - 1 \text{ h } 18 \text{ min} = 15 \text{ h } 45 \text{ min} .$$

58.  $11:18$  (11 h 18 min) - 23 min = ?

$$11 \text{ h } 18 \text{ min} - 23 \text{ min} = 10 \text{ h } 78 \text{ min} - 23 \text{ min} = 10 \text{ h } 55 \text{ min} ,$$

$$10 \text{ h } 55 \text{ min} + 45 \text{ min} = 10 \text{ h } 100 \text{ min} = 11 \text{ h } 40 \text{ min} .$$

59.  $\frac{1}{3}$  ,  $\frac{1}{4}$  ,  $\frac{1}{10}$  , ?

$$24 : 4 = 6 \quad , \quad 24 : 3 = 8 \quad ,$$

$$(24 \cdot 60) : 10 = 144 \text{ min} = 2 \text{ h } 24 \text{ min} .$$

$$24 \text{ h} - 8 \text{ h} - 6 \text{ h} - 2 \text{ h } 24 \text{ min} = 8 \text{ h} - 24 \text{ min} = 7 \text{ h } 36 \text{ min} .$$

60.  $\frac{1}{2}$  , 2023



,  
 ?  
 12  
 $60 \cdot 12 = 720$   
 12  
 $720 \cdot 2 = 1440$   
 $1440 : 24 = 60$   
 1 2024

61.

21.03.2022 9  
 3  
 9 ?  
 12  
 720  
 $720 : 3 = 240$   
 , 240 10  
 31.03.2022 9

62.

2 22 33  
 1 50 2000 ?  
 $2000 = 33 \cdot 60 + 20$  1  
 $50 + 33 = 83$  20 2 23  
 20  
 $60 + 20 - 33 = 47$

63.

7 8.  
 13 14  
 ?  
 8

14.

$$14 - 8 = 6$$

64. 
$$115 \cdot 365 \cdot 24 + 28 \cdot 24 = 1008672,$$

$$1008672 > 1000000$$

( $2000000$ ),

65. 
$$12 \cdot 365 \cdot 24 + 3 \cdot 24 = 4383 \cdot 24 = 105192$$

$$105192 > 100000$$

$150000$

66.  $\frac{1}{10}$

$\frac{1}{5}$

$30:10=3$

$30:5=6$

$30 - (3 + 6) = 21$

67.

$x + 2 = 2(x - 2)$

$y + 3 = 3(y - 3),$

$$x = 6 \quad y = 6.$$

68.  $65$  . , ?

$12$  . ,  $13$

$65 : 13 = 5$  ,  $65 - 5 = 60$  .

$12x$  .  $65 \cdot 12$  ,

$x + 12x = 65 \cdot 12$  ,  $13x = 65 \cdot 12$  ,  $x = (65 \cdot 12) : 13 = 60$  .

$60$  ,  $60$  .

69.  $35$  . -

? ,

$2x$  ,  $12x$  .  $x$  .

$12 \cdot 35 = 420$  ,  $2x + 12x = 420$  ,  $x = 30$  .

$30$  ,  $35 - 30 = 5$  .

$12 : 2 = 6$  .

$35 : (6 + 1) = 5$  -

$35 - 5 = 30$  .

70. ,

$720$  . ,

$720 : 2 = 360$  .  $720$  ,  $4$  ,

$360 : 4 = 90$  .

$5$  ,  $360 : 5 = 72$

71.  $300$   
 $60$   
 $?$   
 $300 - 60 = 240$  -  
 $240 : 2 = 120$  ,  
 $300 - 120 = 180$  .

72.  $146$   $22$   
 $20$   $32$  -  
 $?$   
 $22 + 20 + 32 = 74$  -  
 $146 - 74 = 72$   
 $72 : 3 = 24$  ,  
 $24 + 22 = 46$  ,  $24 + 20 = 44$   
 $24 + 32 = 56$  .

73.  $28$  ,  
 $17$   $14 \text{ kg}$  ,  
 $?$   
 $28 \cdot 17 = 476$   
 $14 \text{ kg}$  ,  
 $(1 + 17 + 476) \cdot 14 = 494 \cdot 14 = 6916 \text{ kg}$  .  
 $28 \cdot 17 = 476$  -  
 $14 \text{ kg}$  ,  $17 \cdot 14 = 238 \text{ kg}$  . ,  
 $28 \cdot 238 = 6664 \text{ kg}$  . ,  
 $14 + 238 + 6664 = 6916 \text{ kg}$  .

74.  $12 \text{ kg}$  .  
 $x$  .  
 $2x$  ,  $3(x + 2x) = 9x$  . ,

$$\begin{aligned}
 x + 2x + 9x &= 12, & x &= 1 \text{ kg} . \\
 1 \text{ kg} , & & 2 \text{ kg} & & 9 \text{ kg} . \\
 & & & & \frac{3}{4} \\
 & & \frac{3}{4} \cdot 12 &= 9 \text{ kg} . \\
 12 - 9 &= 3 \text{ kg} . \\
 & & & & \frac{1}{3} \\
 & & \frac{1}{3} \cdot 3 &= 1 \text{ kg} . \\
 3 - 1 &= 2 \text{ kg} .
 \end{aligned}$$

75.  $30 \text{ kg}.$   $3 \text{ kg}$  ?

$$\begin{aligned}
 & 3 \text{ kg}, \\
 & \text{kg, } 2 \quad 1 \quad 6 \text{ kg} \quad 30 \text{ kg}, \quad 3 \quad 30 \\
 & 6 \text{ kg} \quad 30 \text{ kg.} \quad , 3 \quad 30 - 6 = 24 \text{ kg} , \\
 & 24 : 3 = 8 \text{ kg} . \\
 & 30 - 8 = 22 \text{ kg} , \\
 & 22 - 8 = 14 \text{ kg} .
 \end{aligned}$$

76.  $6 \text{ kg } 400 \text{ g} .$   $50 \text{ g}$  -

$$\begin{aligned}
 & 4 \text{ kg} . \quad - \\
 & x, \quad y . \\
 x + y &= 6 \text{ kg } 400 \text{ g} \quad x + 50 \text{ g} = y + 4 \text{ kg} . \\
 2x + y + 50 \text{ g} &= 6 \text{ kg } 400 \text{ g} + y + 4 \text{ kg}, \\
 2x &= 10 \text{ kg } 400 \text{ g} - 50 \text{ g}, \\
 2x &= 10 \text{ kg } 350 \text{ g}, \\
 x &= 5 \text{ kg } 175 \text{ g}.
 \end{aligned}$$

$$y = 6 \text{ kg } 400 \text{ g} - 5 \text{ kg } 175 \text{ g} = 1 \text{ kg } 225 \text{ g} .$$

77.  $5 \text{ kg}$  ,  $4 \text{ kg}$  ,  $2 \text{ kg}$   
 $3 \text{ kg}$  .  $300 \text{ kg}$  ?  
 $4 \text{ kg}$  ,  $2 \text{ kg}$  ,  $3 \text{ kg}$  ,  
 $4 \text{ kg}$  ,  $6 \text{ kg}$  . ,  $5 \text{ kg}$   
 $5 \cdot 60 = 300 \text{ kg}$  ,  $6 \cdot 60 = 360 \text{ kg}$  .

78.  $90 \text{ kg}$  ,  $186 \text{ kg}$  ,  $240 \text{ kg}$  .  
 ?

$$J + O = 90$$

$$J + T = 186$$

$$O + T = 240$$

$$2(J + O + T) = 516$$

$$J + O + T = 258$$

$$J = 18 \text{ kg}$$

$$O = 72 \text{ kg}$$

$$T = 168 \text{ kg}$$

79.  $18 \text{ cm}$  .

$$13 \text{ cm} ?$$

$$3 \cdot 60 = 180$$
 ,  $1 \text{ cm}$  ,  $180 : 18 = 10$  -

$$18 - 13 = 5 \text{ cm}$$
 ,  $5 \cdot 10 = 50$  -

$$13 \text{ cm}$$
  $50$  .

80.  $50 \text{ m}$  .

$$4800 \text{ m} ?$$

$4800\text{ m}$        $4800 : 50 = 96$        $50\text{ m}$ .  
 $96$   
 $50\text{ m}$   
 $96 + 1 = 97$

81.

$4\text{ m}$ .  
 $55$       ?  
 $55$        $54$        $4\text{ m}$ .  
 $4 \cdot 54 = 216\text{ m}$ .

82.

$80\text{ m}$ .       $1600\text{ m}$ ,  
 $50\text{ m}$ .  
 ?  
 $\text{NZS}(50, 80) = 400$ ,  
 $1 + 1600 : 400 = 1 + 4 = 5$

83.

$15\text{ m}$ .  
 $16$   
 $1\text{ m}, 80\text{ cm}, 80\text{ cm}$       , . .  
 ?  
 $x$   
 $1500x \geq 16(100 + 80 + 80)$ ,       $1500x \geq 4160$ ,  
 $x \geq 4160 : 1500$ ,       $x > 2$ .       $3$  -

84.

$180\text{ cm}$        $140\text{ cm}$   
 $80\text{ m}$  ?  
 $L = 2 \cdot (180 + 140) = 640\text{ cm}$ ,  
 $80 \cdot 100 = 8000\text{ cm}$ .  
 $8000 = 12 \cdot 640 + 320$ ,

12

320 cm

85.

176459

?

176480.

176459

$176480 - 176459 = 21 \text{ km}$

86.

76488

?

6

7,

1.

77111,

$77111 - 76488 = 623$

87.

1

3

1

240

?

1

2

1

240

$240 : 2 = 120$

$240 : 3 = 80$

$120 - 80 = 40$

88.

210 km ,

5

2

1

x



$$2x + 2(x + 5) = 210, \quad 4x + 10 = 210.$$

$$4x = 200, \quad \therefore x = 50.$$

$$50 + 5 = 55$$

210

$$210 : 2 = 105$$

$$(105 - 5) : 2 = 50$$

$$50 + 5 = 55$$

89.

$$2(x + x + 10) = 250 - 30,$$

$$50 \text{ km/h}, \quad 60 \text{ km/h}.$$

90.

( ) -

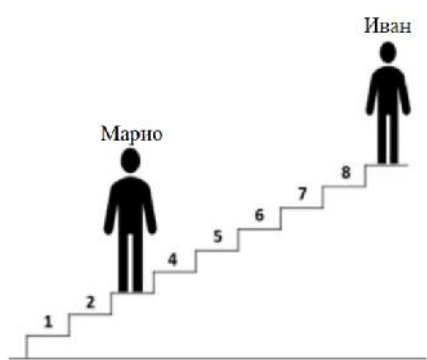
30 cm

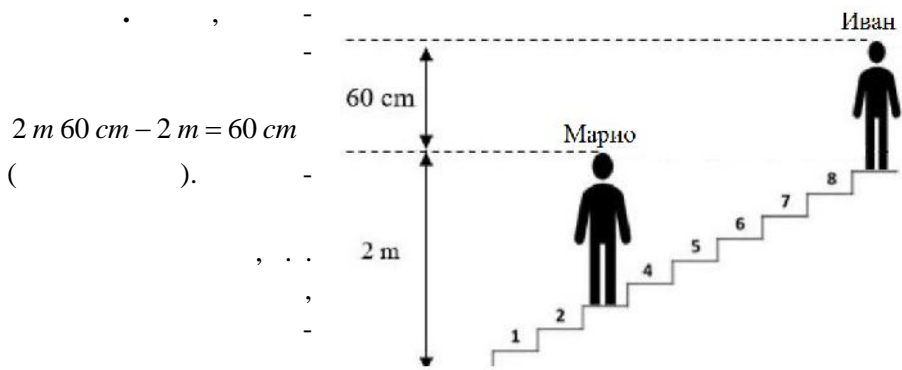
2 m .

( ) -

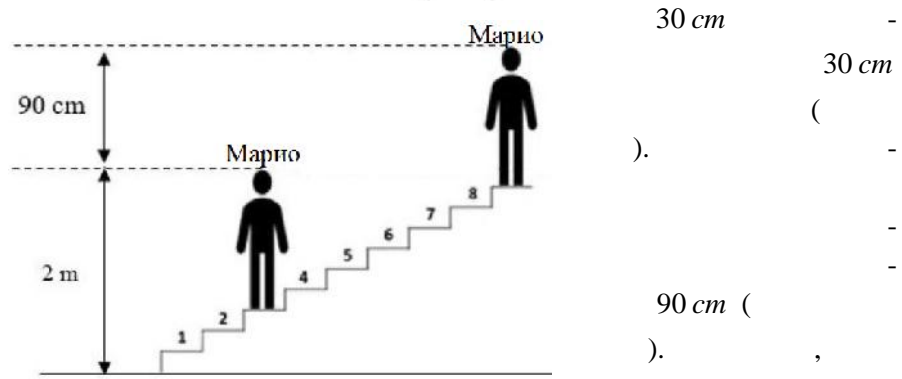
2 m 60 cm .

?



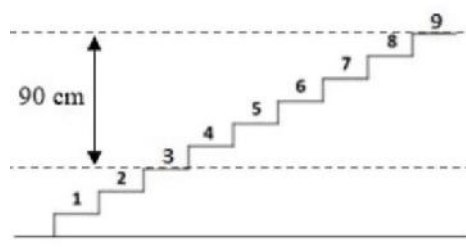


$2\text{ m } 60\text{ cm} - 2\text{ m} = 60\text{ cm}$   
( ).



$90 : 6$   
 $= 15\text{ cm}$ .

$3 \cdot 15 = 45\text{ cm}$   
 $2\text{ m} \cdot$   
 $200 - 45 = 155\text{ cm}$ .  
 $30\text{ cm}$   
 $155 - 30 = 125\text{ cm}$



91.

7  
3 cm .  
1 cm .  
2 m ,  
?

$$2m = 200 \text{ cm}.$$

1.  $10$   $200$   
 210, 220, 230, 240, 250, 260, ...,  
 : 211,  
 221, 231, 241, 251, 261, ....

3.  $7$   $200$   
 203, 210, 217, 224, 231, 238, 245, ...,  
 : 206,  
 213, 220, 227, 234, 241, 248, ...

$$241. \quad ,$$

$$: (241-1) : 10 = 24 \text{ cm}.$$

92. , .

6 . ?

	6	6	6
	4	6	8
	4	9	5
	8	5	5

93. , , .

18  $60$  .

6 .

?

18  $18 \cdot 60 = 1080$  .

$18 - 6 = 12$  ,

$$1080 : 12 = 90$$

94. , , ( 123 )

75 2 40 ,

1.

?

$123 = 20 \cdot 6 + 3$      $123 = 41 \cdot 3$ ,

20 41

20 · 2 = 40

20 · 40 = 800 , 40 800 , 48

41 · 75 = 3075 , 30 75

78 75

78 : 3 = 26    75 : 3 = 25 ,    26 25

95. , 2007

100 , 60 , ?

100 60

2007 : 3 = 669

669 + 100 + 60 = 829 , 669 - 100 = 569

669 - 60 = 609

96. 1430 . -

246

317 294 .

?

$246 + 317 + 294 = 857$  . -

$1430 - 857 = 573$  , -

$573 : 3 = 191$  . ,

$246 + 191 = 437$  ,     $317 + 191 = 508$

$294 + 191 = 485$  .

97. , 5724 .  
 500 . ?

5724 : 3 = 1908  
 1908 + 500 = 2408      5724 - (1908 + 2408) = 1408 -

98. . -

150 , 500 . -  
 ?  
 500 , -  
 1500 . -  
 1500 .  
 150 , 500 - 150 = 350  
 , 1500 - 350 = 1150 .

99. , 87831 .

?  
 87831 : 9 = 9759 .  
 12 · 9759 = 117108 . -  
 117108 · 9 = 1053972 .  
 9 · 12 = 108 .  
 , 9 -  
 108 : 9 = 12 . , -  
 87831 · 12 = 1053972 .

100. , 3490 . 270

140 , ?  
 270 , 140  
 , 3490 + 270 + 140 = 3900 . ,

$$\begin{aligned}
 & 3900 : 3 = 1300 \\
 1300 & , \quad 1300 - 270 = 1030 \\
 1300 - 140 & = 1160
 \end{aligned}$$

101.  $2024$  .

?

$5x$  . ,  $x$  , -

3x

5x + 3x = 2024 ,  $8x = 2024$  , . .

$x = 253$  . ,  $253 \cdot 5 = 1265$  ,

$253 \cdot 3 = 759$  .

$1265 - 759 = 506$  .

102.  $2019$  .

?

$x$  , -

$5x$  .

$x ( \quad )$  ,

$2x$  .

$5x - 2x = 3x$  ,  $3x = 2019$  ,  $x = 673$  .

$5 \cdot 673 = 3365$  ,

$2 \cdot 673 = 1346$  .

$3365 + 1346 = 4711$  ,

$2 \cdot 673 = 1346$  ,

$4711 - 1346 = 3365$  .

103.  $16100$  .

$7400$  ,

$7100$  .

?

$x, y, z$  ,

$x + y + z = 16100$  ,  $x = y + 7400$   $x + y = z + 7100$  .

$$\begin{aligned}
 & 2z + 7100 = 16100, \\
 z = 4500 & \quad , \quad x + y = 11600, \\
 & 2y + 7400 = 11600, \quad y = 2100 \\
 & , \quad x = 2100 + 7400 = 9500 \quad , \quad 9500 \\
 & , \quad 2100 \quad 4500 \quad .
 \end{aligned}$$

104. 6 , 3 1 100

$$\begin{aligned}
 & , \quad 2 \quad , 1 \quad 3 \\
 & . \quad 2 \quad , 1 \quad 3 \quad 100 \quad ? \\
 & , \quad 6 \quad , 3 \quad 9 \quad 100 \\
 & 300 \quad , \quad 6 \quad , 3 \quad , 3 \quad 1 \\
 & \quad 100 \quad , \quad 9 - 1 = 8 \\
 300 - 100 = 200 & \quad , 1 \quad 200 : 8 = 25 \quad - \\
 . \quad , \quad 100 \quad 100 : 25 = 4
 \end{aligned}$$

105. 8 kg

$$\begin{aligned}
 & 15 \quad , \quad 5 \text{ kg} \quad 33 \\
 & . \quad ? \quad ? \\
 & . \quad x \quad 1 \text{ kg} \\
 8 \text{ kg} & \quad 15 \quad , \quad 8x - 15 \\
 . \quad , \quad 5 \text{ kg} \quad 33 \\
 & , \quad 5x + 33 \quad , \\
 & 8x - 15 = 5x + 33, \\
 & 8x - 5x = 33 + 15, \\
 & 3x = 48, \\
 & x = 48 : 3 = 16. \\
 & , \quad 16 \quad 8 \cdot 16 - 15 = 113 \\
 & .
 \end{aligned}$$

106. 1700 - -

$$\begin{aligned}
 & , \quad - \quad - \\
 & , \quad 33480 \quad , \quad - \quad -
 \end{aligned}$$

3 ?

$$3 \cdot 1700 = 5100$$

$$33480 - 5100 = 28380$$

$$2x$$

$$x$$

$$2x + x = 28380,$$

$$3x = 28380,$$

$$x = 9460$$

$$2 \cdot 9460 = 18920$$

$$9460 + 5100 = 14560$$

107. 3 kg

5 kg

2 kg

3 kg

?

6 kg

10 kg

2 kg

$\frac{10}{3}$  kg

$$\frac{10}{3} > 3,$$

108.

3 kg

2 kg

2 kg

1 kg

5 kg

3 kg

?

3 kg

?

1 kg

2 kg

3 kg

6 kg

3 kg

5 kg

3 kg

2 kg

15 kg

10 kg

5 kg

$\frac{10}{3}$  kg

109.

1.

5.

$\frac{1}{6}$

$\frac{1}{5}$

$\frac{1}{4}$



---

1800      5.      1.      ?

    .      5.      1800      ,

    .      600      .       $\frac{5}{6}$

    ,       $\frac{6}{5} \cdot 600 = 720$       .

    ,       $\frac{4}{5}$

$\frac{5}{4} \cdot 600 = 750$       .      ,      -

$\frac{4}{3} \cdot 600 = 800$       .      ,      1.      -

$720 + 750 + 800 = 2270$       .

110.      2009      .       $\frac{1}{9}$

    10       $\frac{1}{10}$       ,

    ?       $\frac{1}{9}$

    .       $x$        $\frac{1}{10}$       ,       $\frac{1}{9}$

$x + 10$       .      ,       $10x$       ,

$9(x + 10)$       .       $9(x + 10) + 10x = 2009$  ,      -

$19x = 1919$  ,       $x = 101$  .      ,       $10 \cdot 101 = 1010$

    ,       $2009 - 1010 = 999$       .

111.      ,      2006      .

$\frac{3}{4}$       ,

$\frac{5}{6}$        $\frac{6}{7}$       .

    .      -

    ?       $x, y, z$

    .      ,       $\frac{3}{4}$

    ,      .       $\frac{1}{4}x$       .

$\frac{1}{6}y$

$\frac{1}{7}z$       .      ,

$\frac{1}{4}x = \frac{1}{6}y = \frac{1}{7}z = t$  ,       $x = 4t, y = 6t, z = 7t$  .      ,

$$x + y + z = 2006,$$

$$\begin{array}{rcl}
 17t = 2006, & t = 118. & , & 4t + 6t + 7t = 2006, \dots \\
 , & 6 \cdot 118 = 708 & , & 4 \cdot 118 = 472 \quad - \\
 . & & & 7 \cdot 118 = 826 \quad -
 \end{array}$$

112. , 2016 ..

$$\begin{array}{rcl}
 \frac{2}{3} & , & \frac{3}{4} \\
 & \frac{6}{7} & , \\
 & ? & \\
 & \frac{2}{3}, & \frac{1}{3} \\
 & \frac{1}{4} & , \\
 & \frac{1}{7} & . \\
 & & \frac{1}{3}a = \frac{1}{4}b = \frac{1}{7}c = x. , \\
 a = 3x & , & b = 4x \\
 c = 7x & . & 3x + 4x + 7x = 2016, \\
 14x = 2016, & x = 144 & . , \quad 3 \cdot 144 = 432 \\
 , & 4 \cdot 144 = 576 & , \quad 7 \cdot 144 = 1008 \\
 . & &
 \end{array}$$

113. , 2016

$$\begin{array}{rcl}
 & \frac{2}{3} & , \quad \frac{3}{4} \\
 & \frac{5}{6} & . \\
 & ? & \\
 & a, v, s & , \\
 & \frac{1}{3} & , \quad \frac{1}{4} \\
 & \frac{1}{6} & . \\
 & , & \frac{1}{3}a, \frac{1}{4}v \quad \frac{1}{6}s \\
 & x & .
 \end{array}$$

$$\frac{1}{4}v = \frac{1}{6}s = x, \frac{1}{3}a = \frac{1}{4}v + \frac{1}{6}s = 2x \quad a + v + s = 2016. \quad -$$

$$v = 4x, s = 6x, a = 6x \quad 6x + 4x + 6x = 2016. \quad -$$

$$16x = 2016, \dots x = 126. \quad ,$$

$$6 \cdot 126 = 756 \quad , \quad 4 \cdot 126 = 504 \quad .$$

114.  $10$   $22$  .

?

10

22 : 2 = 11 -

11 · 6 = 66

4 · 66 = 264

10

2 · 22 = 44

6 · 44 = 264

115.  $3$   $4$   $6$

?

3

4

6 8

116.  $4$  ,  $12$  .

?

12

3

12

3 + 1 = 4 .

12 : 4 = 3 .

117.  $6$   $8$  ,  $5$  -

?

?)

$$6 \cdot 3 = 18$$

$$18 : 2 = 9$$

118.

	1	2	3
	12	12	12
	8	12	16
	8	18	10
	16	10	10

119.

$$3 \cdot 36 = 108$$

4

$$127 - 3 \cdot 4 = ?$$

$$127 - 108 = 21$$

19

120.

$$: 130, 110, 100, 115 \quad 105.$$

?

4.

$$: 130 + 110 + 115 + 105 = 460.$$

$$460 - 115 = 345.$$

$$460 : 4 = 115,$$

121.  $144 : 4 = 36$   
 $144 - 36 = 108$   
 $108 : 9 = 12$   
 $5 \cdot 12 = 60$

122.  $400 : 2 = 200$   
 $200 : 2 = 100$   
 $100 + 10 = 110$

123.  $3 \cdot 2 = 6$   
 $6 \cdot 9 = 54$

124.  $24 : 2 = 12$   
 $12 : 3 = 4$   
 $3 \cdot 4 = 12$   
 $12 \cdot 5 = 60$

125.  $4 \cdot 5 = 20$   
 $24 - 20 = 4$

$$\begin{array}{r}
 30 \quad ? \\
 \cdot \quad 1 \quad 3 \quad \quad \quad 24:4=6 \quad \quad \quad 1 \quad 1 \\
 \quad \quad \quad 6:3=2 \quad \quad \quad , 1 \quad \quad \quad 30 \\
 30:2=15 \quad , \quad \quad 5 \quad \quad \quad 30 \quad \quad \quad 15:5=3 \quad \cdot
 \end{array}$$

126.  $448$  -

, 28

2009 , -

?

$2009 \cdot 448 = 900032$

$900032 : 28 = 32144$

$448 : 28 = 16$

$2009 \cdot 16 = 32144$

127.  $1645$  ,

18  $17$  ,

?  $18+17=35$  .

$1645 : 35 = 47$  .

$18 \cdot 47 = 846$   $17 \cdot 47 = 799$  .

128.  $1435$  , ,

, 6 , 7 , 8 5 , 9

? ,

$5+6+7+8+9=35$  .

$1435$  ,

41. ,  $5 \cdot 41 = 205$  ,

$6 \cdot 41 = 246$  ,  $7 \cdot 41 = 287$  ,  $8 \cdot 41 = 328$

$9 \cdot 41 = 369$  .

129. .

8 .

, -

---

$17 + 1 + 4 = 22$   
 $22 \cdot 8 = 176$   
 $5 \cdot 176 + 1 = 881$

130.

$60 - 4 = 56$   
 $56 : 7 = 8$   
 $8 \cdot 3 = 24$   
 $60 - 24 = 36$

131.

$3600 : 5 = 720$   
 $3600 - 720 = 2880$   
 $2880 : 8 = 360$   
 $3 + 5 = 8$   
 $5 \cdot 360 = 1800$

132.

$3 \cdot 4 = 12$

$$12:2=6$$

$$3x-12=x, \quad 2x=12, \quad x=6.$$

$$3(x-4)=x,$$

$$3 \cdot 4 = 12$$

$$3x-x=12$$

$$x=6.$$

133.

$$4x-12=x, \quad x=4.$$

$$4(x-3)=x,$$

$$x-3$$

134.

$$50, \quad 480$$

$$40$$

$$x+x+2x-40=480,$$

$$x=130$$

$$130+50=180$$

$$2x-40$$

$$4x=520,$$

$$130$$

$$170$$

135.

$$5$$

$$, 3$$

$$?$$

$$x,$$



$$\begin{aligned}
 & x+5. \quad - \\
 & x+5-3=x+2, \\
 & x+3. \quad ,
 \end{aligned}$$

136. -

$$\begin{aligned}
 & , \quad 20 \quad . \\
 & , \quad , \quad , \quad - \\
 & , \quad ? \quad . \\
 & . \quad 4 \quad x \quad . \\
 & , \quad , \quad x+4 \quad . \\
 & , \quad x+x+4=20, \quad 2x=16, \quad x=8. \quad , \\
 & \quad 8 \quad 12 \quad .
 \end{aligned}$$

137. 29

$$\begin{aligned}
 & , \quad , \quad , \quad . \\
 & . \quad ? \\
 & . \quad x \quad . \\
 & , \quad 3 \quad . \\
 & x+x+3=29, \quad 2x=26, \quad x+3. \quad , \\
 & \quad 23 \quad 16 \quad x=13. \quad ,
 \end{aligned}$$

138. 24

$$\begin{aligned}
 & 24 \quad , 14 \quad 62 \quad . \\
 & ? \\
 & . \quad 14 \quad , \quad 14:2=7 \quad . \\
 & , \quad 24-7=17. \quad , \\
 & 14 \quad , \quad 62-14=48 \quad . \quad , \quad 48:4=12 \\
 & . \quad , \quad 17-12=5 \quad .
 \end{aligned}$$

139.

25

$x + 3x + y + 2y = 25,$   $4x + 3y = 25.$   $x > 1.$   
 $x = 4, y = 3.$   $4, 12, 3, 6$

140.

$3 \cdot 2x = 6x$   $x + 6x = 210,$   $x = 30.$   
 $210$   $60$   $180$

141.

$7x = 714,$   $x = 102.$   
 $102$   $102 + 102 = 204$   
 $204 + 204 = 408$

142.

46

?

$$46 - 1 = 45$$

$$x$$

$$4x$$

$$x + 4x = 45$$

$$x = 9$$

$$45 - 9 = 36$$

143.

$$2024$$

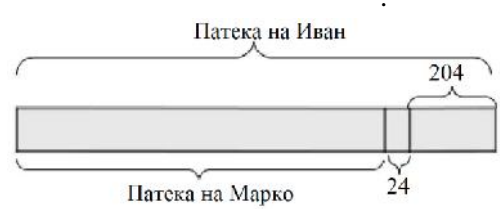
$$204$$

$$24$$

$$?$$

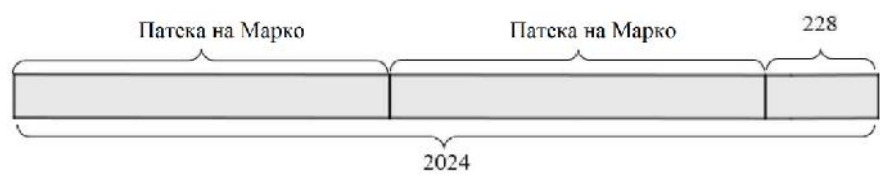
$$204$$

$$24$$



$$2024$$

$$228$$



$$(2024 - 228) : 2 = 898$$

$$898 + 228 = 1126$$

144.

$$180$$

$$\frac{1}{6}$$

$$\frac{1}{5}$$

?

$$180:3=60 \quad , \quad \frac{5}{6}$$

$$60 \quad , \quad (60:5) \cdot 6 = 72 \quad ,$$

$$(60:4) \cdot 5 = 75 \quad , \quad 180 - (72 + 75) = 33$$

145.

$$200 \quad , \quad 6 \quad -$$

$$4, \quad 5 \quad .$$

$$5 \quad ?$$

$$200 - 5 \cdot 4 = 180$$

$$4 + 6 = 10 \quad , \quad 180:10 = 18 \quad 18$$

$$(18 + 5) \cdot 4 = 92$$

$$18 \cdot 6 = 108$$

146.

$$?$$

$$4 \quad , \quad -$$

$$4 \quad -$$

$$9 \cdot 4 = 36 \quad , \quad -$$

147.

”

“ , “ : ”

“

$$x+1 \quad , \quad x \quad , \quad x+1, \quad 1 \quad ,$$

$$1 \quad , \quad x+2 \quad .$$

$$x-1 \quad , \quad x+3 = 2(x-1), \quad x+3 \quad ,$$

$$x+3 = 2x-2,$$

$$x=5, \quad 5, \quad 7.$$

148.

$$480$$

?

$$5x, \quad 5x - x = 480, \quad x, \quad 4x = 480, \quad x = 480 : 4 = 120.$$

$$120, \quad 5 \cdot 120 = 600.$$

149.

?

$$2x = 3(x - 3), \quad 2x, \quad x, \quad 2x = 3x - 9, \quad 3x - 2x = 9,$$

$$x = 9, \quad 9, \quad 18,$$

$$\dots \quad 9 + 18 = 27.$$

150.

й

$$5, \quad 3,$$

$$4, \quad 3,$$

?

$$5x - 3 = 4x + 3, \quad x, \quad 5x - 3x = 3 + 3, \quad \dots \quad x = 6.$$

$$6.$$

151.

$$4, \quad 2, \quad 5,$$

?

$$4x + 2, \quad x,$$

$$5x - 1, \quad 4x + 2 = 5x - 1, \quad x = 3.$$

$$3, \quad 4 \cdot 3 + 2 = 14.$$

152.

$$140.$$

40

?

$2x - 40$ ,  $x + x + 2x - 40 = 140$ ,

$x = 45$ , 45

45

$45 : 3 = 15$ ,

$4 \cdot 15 = 60$

$45 : 9 = 5, \dots$

$10 \cdot 5 = 50$

$140 - 60 - 50 = 30$

153. 25

5, 7

?

25

$25 - 7 = 18$ , 7

$x$ ,  $2x$ ,

$x + 2x = 18$ ,  $3x = 18$ ,  $x = 6$ ,

6, 12,

$12 + 5 = 17$

154.

?

$\frac{3}{7}$ ,

$1 - \frac{3}{7} = \frac{4}{7}$ , 4

$$4 \quad \frac{4}{7} - \frac{3}{7} = \frac{1}{7}$$

$$4 \cdot 7 = 28$$

155.

$$\frac{1}{2}$$

$$\frac{1}{3}$$

$$6 + 2 = 8$$

$$\frac{2}{3}$$

$$3$$

$$?$$

$$\frac{1}{2}$$

$$2 \cdot 3 = 6$$

$$3 \cdot 8 = 24$$

156.

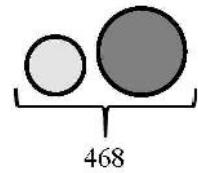
$$(\quad) \quad 468$$

2024

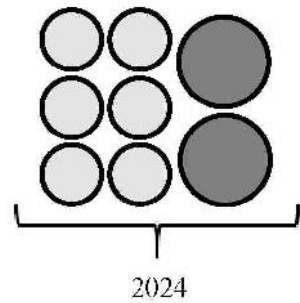
?



468,



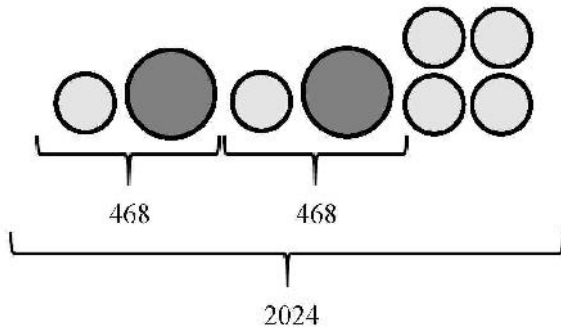
2024



$$2024 - 2 \cdot 468 = 1088$$

$$1088 : 4 = 272$$

$$468 - 272 = 196$$



$$x + y = 468 \quad 6x + 2y = 2024.$$

$$y = 468 - x,$$

$$6x + 2(468 - x) = 2024, \dots 6x + 936 - 2x = 2024, \dots, 4x = 1088, \dots$$

$$x = 272, \dots, y = 468 - 272 = 196.$$

272      196

157.

3

?

$$2 \cdot (3 + \frac{1}{2}) = 7$$

$$2 \cdot (7 + \frac{1}{2}) = 15$$

$$2 \cdot (15 + \frac{1}{2}) = 31, \dots$$

31

158.

180

?



$$\begin{aligned}
 & 180 : 3 = 60 \\
 & 60 : \frac{5}{6} = 72 \\
 & 12 \cdot 6 = 72 \\
 & 60 : 5 = 12 \\
 & 12 \cdot 6 = 72 \\
 & 60 : 4 = 15 \\
 & 15 \cdot 5 = 75 \\
 & 180 - 72 - 75 = 33
 \end{aligned}$$

159.

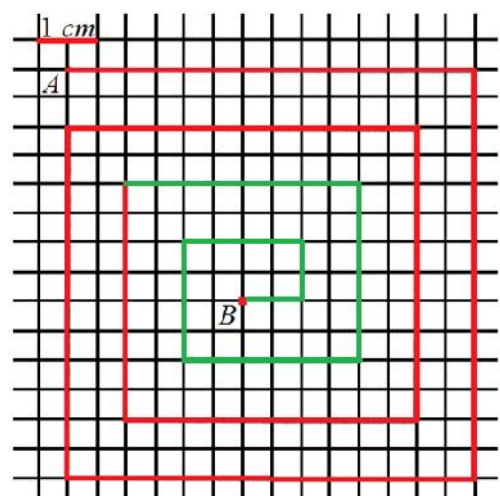
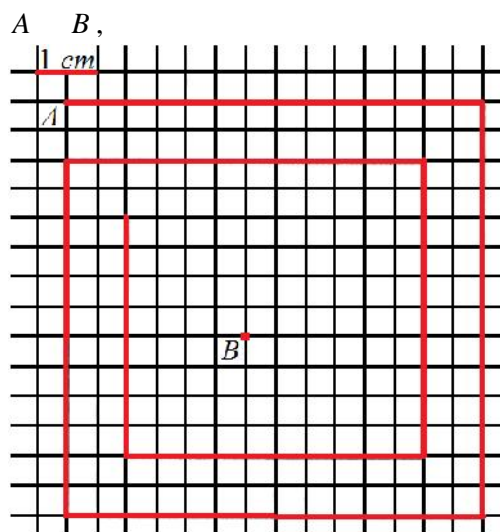
$$\begin{aligned}
 & 24 \\
 & \frac{3}{5} \\
 & ? \\
 & \frac{3}{5} \\
 & 3 \\
 & 5 \\
 & 3 + 5 = 8 \\
 & 3 \\
 & 3 \cdot 3 = 9 \\
 & 3 \cdot 5 = 15 \\
 & x \\
 & \frac{3}{5}x \\
 & x + \frac{3}{5}x = 24 \\
 & 8x = 24 \cdot 5, \quad x = (24 \cdot 5) : 8 = 15 \\
 & 24 - 15 = 9
 \end{aligned}$$

160.

. ” “?  
 6 ( -  
 ).  
 6  
 ,  
 7. , “  
 6 7, NZD(6,7) = 1, ” 6 · 7 = 42 .  
 42,  
 84, 126, ... . ,  
 ” “ 42 .

3.

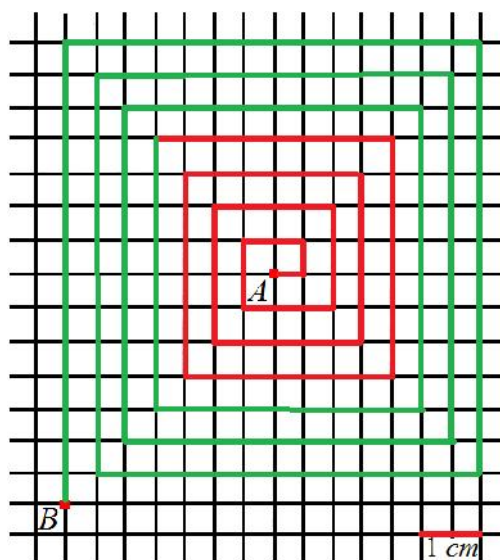
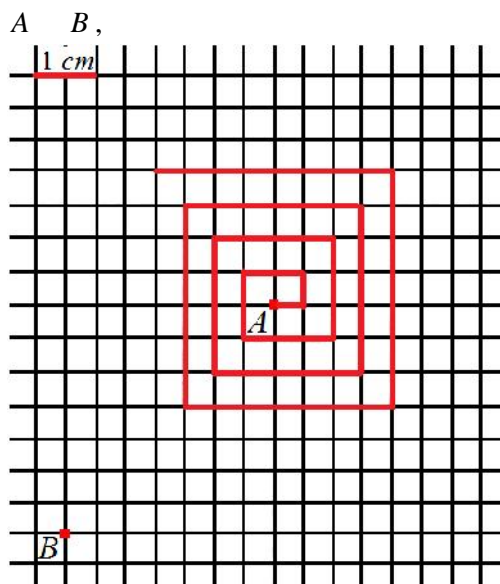
1.



:

$$1+1+2+2+3+3+4+4+5+5+6+6+7+7+7=63 \text{ cm}.$$

2.



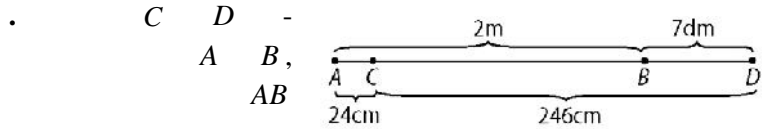
$$1+2+3+4+5+6+7+8+9+10+11+12+13+14=105 \text{ cm} .$$

3.

A, B, C D

$\overline{AB} = 2\text{ m}$ ,  $\overline{AC} = 24\text{ cm}$ ,  $\overline{BD} = 7\text{ dm}$ ,  
 $\overline{CD} = 246\text{ cm}$ .

C.



$\overline{AB} = 2\text{ m}$ ,  $\overline{CD} = 246\text{ cm}$

$\overline{AC} = 24\text{ cm}$ ,  $\overline{BD} = 7\text{ dm}$

$$2\text{ m} - 24\text{ cm} = 176\text{ cm}.$$

4.  $\overline{AB}, \overline{C}, \overline{D}$

$\overline{AB} = 3\text{ m}$ ,  $\overline{AC} = 56\text{ cm}$ ,  $\overline{BD} = 11\text{ dm}$ .

$\overline{CD} = ?$

$\overline{CD} = 134\text{ cm}$ ,

$\overline{AB} = 466\text{ cm}$ .

5.  $\overline{A}, \overline{B}, \overline{C}, \overline{D}, \overline{E}$

$\overline{AB} = \overline{DE} = 16\text{ cm}$ ,

$\overline{BC} = \overline{CD} = 6\text{ cm}$ .

$\overline{AE} = ?$

$$\overline{BC} + \overline{CD} = \overline{BD}.$$

$$\frac{1}{2}\overline{BC} + \frac{1}{2}\overline{CD} = 6\text{ cm},$$

$$\overline{BD} = 2 \cdot 6 = 12\text{ cm}.$$

$$\frac{1}{2}\overline{AB} + \overline{BD} + \frac{1}{2}\overline{DE} = 16\text{ cm},$$

$$\frac{1}{2}\overline{AB} + \frac{1}{2}\overline{DE} = 16 - 12 = 4\text{ cm}.$$

$$\overline{AE} = 16 + \frac{1}{2}\overline{AB} + \frac{1}{2}\overline{DE} = 16 + 4 = 20\text{ cm}.$$

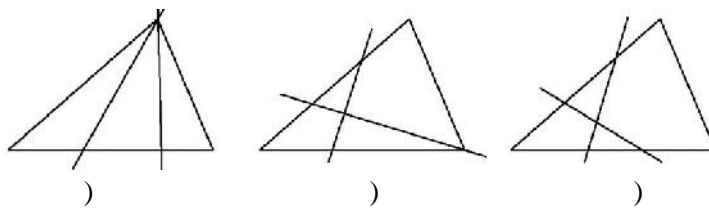


6.

)

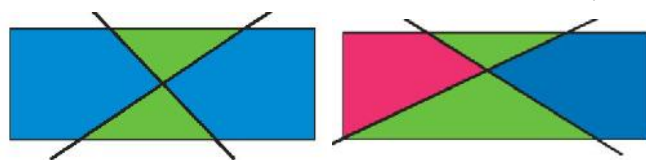
)

)



7.

)  
)  
)  
)



8.

*72 cm.*

, . . .  $L = 2 \cdot 72 = 144 \text{ cm.}$

9.

$6 \text{ cm}^2$ .

, . . .  $P = 4 \cdot 6 = 24 \text{ cm}^2$ .

10.

$$ABC \ (\overline{AB} = \overline{AC})$$

AC

$\triangle BAD$  16 cm.

D,

BC

ABC,

$\triangle BCD$  29 cm.

$$L_{\triangle BAD} = \overline{BA} + \overline{AD} + \overline{DB} = 16 \text{ cm}$$

$$L_{\triangle BCD} = \overline{BC} + \overline{CA} + \overline{AD} + \overline{DA} = 29 \text{ cm}$$

$$\overline{CA} = \overline{BA}$$

$$\overline{BC} = L_{\triangle BCD} - L_{\triangle BAD} = 29 - 16 = 13 \text{ cm.}$$

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



11.

$$3x + 1 = 5x - 7$$

cm.

$$5x - 7 = 3x + 1,$$

$$x = 4.$$

$$5x - 7 + 3x + 1 = 26 \text{ cm,}$$

$$4 \cdot 26 = 104 \text{ cm.}$$

12.

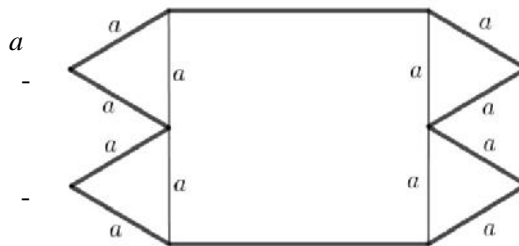
3 cm.



78 cm.

( ) .

$2a + 3$



( ) .

$2a,$

$2a + 3.$

$$L = 2(2a + 3 + 4a) = 12a + 6,$$

$$12a + 6 = 78, \quad 12a = 72, \quad a = 6 \text{ cm}.$$

$$L' = 2(2a + 2a + 3) = 8a + 6 = 8 \cdot 6 + 6 = 54 \text{ cm}.$$

13.

$ABCD$

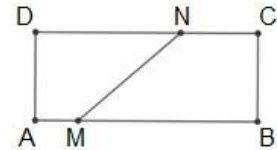
8 cm 5 cm

$MN$   
20 cm .

$MN$  .

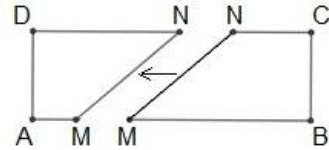
$ABCD$

$$2 \cdot (8 + 5) = 26 \text{ cm}.$$



$AMND$   $MBCN$

$$2 \cdot 20 = 40 \text{ cm}$$



$MN$  , (

$$26 + 2\overline{MN} = 40, \dots$$

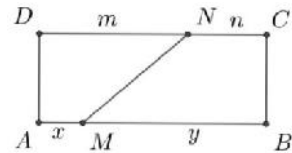
$$\overline{MN} = (40 - 26) : 2 = 7 \text{ cm}.$$

$$a = 8 \text{ cm} \quad b = 5 \text{ cm}.$$

$$a = x + y = m + n,$$

$$L_{AMND} = x + \overline{MN} + m + b,$$

$$L_{MBCN} = y + b + n + \overline{MN},$$



$$\begin{aligned} L_{AMND} + L_{MBCN} &= x + \overline{MN} + m + b + y + b + n + \overline{MN} \\ &= 2\overline{MN} + (x + y) + (m + n) + 2b \\ &= 2\overline{MN} + 2(a + b), \end{aligned}$$

$$20 + 20 = 2\overline{MN} + 2 \cdot (8 + 5), \dots \overline{MN} = (40 - 26) : 2 = 7 \text{ cm}.$$

14.

6 cm .

4 cm .

?

$$4 \cdot 6 = 24 \text{ cm}.$$

$$a = b = 4 \text{ cm}.$$



$$2a + 8 = 24, \dots 2a = 24 - 8 = 16, \quad 2a + 2 \cdot 4 = 24, \quad a = 16 : 2 = 8 \text{ cm}.$$

15. 48 cm , -  
2008 cm . -

$$2008 : 4 = 502 \text{ cm} .$$

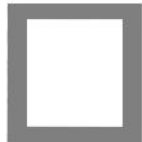

$$2008 - 2 \cdot 48 = 2008 - 96 = 1912 \text{ cm} .$$

16. 8 cm ,  
6 cm ,

$$L + 2(8 + 6) = 3L, \quad L = 14 \text{ cm} .$$

$3 \cdot 14 = 42 \text{ cm} = 420 \text{ mm} ,$

$$420 \text{ mm} : 4 = 105 \text{ mm} = 10 \text{ cm } 5 \text{ mm} .$$

17. -   
- 

50 cm ,

$$1600 \text{ cm}^2 .$$

40 · 40 = 1600 ,

40 cm .

$$(50 - 40) : 2 = 5 \text{ cm} .$$

18. (      ) .   
-   
- 

40 cm

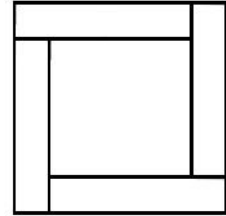
4

$$40 : (4 \cdot 2) = 40 : 8 = 5 \text{ cm} .$$

19.

( )  
2012

(



),

(  
) 8000

$a$

$b$

$$4a + 4b ,$$

$$4a - 4b .$$

$$4a + 4b + 4a - 4b = 8a ,$$

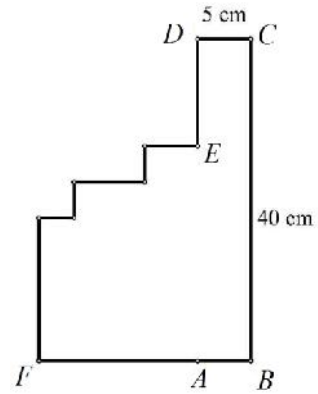
$$8a = 8000 , \dots a = 1000 \text{ cm} \quad b = (2012 - 2 \cdot 1000) : 2 = 6 \text{ cm}$$

20.

$ABCD$

$A$  .  
 $AB, BC$   $CD$  .  
 $DA$   $E$

$A$  ,



$$\overline{BC} = 40 \text{ cm} \quad \overline{CD} = 5 \text{ cm} .$$

$FA$

140 cm .

$a$

$FA$  .

$ABCD$

,

$$\overline{AB} = 5 \text{ cm} .$$

$BC$

40 cm .

$E$

$FA$

$$140 \text{ cm}, \quad FA, \quad a.$$

$$2a + 90 = 140, \quad a + 5 + 40 + 5 + 40 + a = 140,$$

$$\quad \quad \quad , \quad 2a = 50, \quad \dots \quad a = 50 : 2 = 25 \text{ cm}.$$

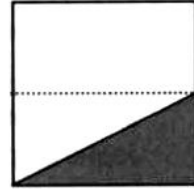
21.

8 cm

$$8 \cdot 8 = 64 \text{ cm}^2.$$

$$64 : 2 = 32 \text{ cm}^2.$$

$$32 : 2 = 16 \text{ cm}^2.$$



22.

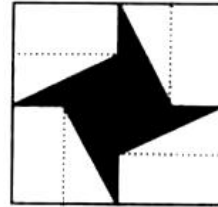
16 cm

$$4 \cdot 2 = 8$$

$$(16 \cdot 16) : 8 = 32 \text{ cm}^2.$$

$$32 : 2 = 16 \text{ cm}^2.$$

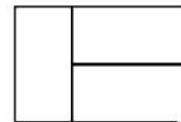
$$16 \cdot 4 = 64 \text{ cm}^2.$$



23.

( ) .

60 cm .

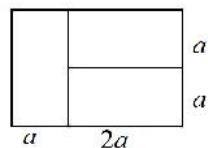


$$a,$$

$$a + 2a + a + 2a = 60,$$

$$2a.$$

$$a = 10 \text{ cm}.$$

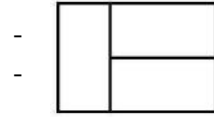


, -  $20\text{ cm}$   $30\text{ cm}$ ,  
 $600\text{ cm}^2$ .

24.

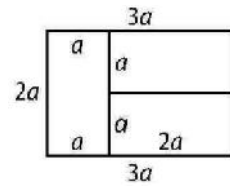
$200\text{ cm}$ .

?



$a$ ,  
 $2a$ .

$a + 2a = 3a$ ,  $2(2a + 3a) = 200$ ,  
 $a = 20\text{ cm}$ ,  
 $20\text{ cm}$   $40\text{ cm}$ ,  
 $20 \cdot 40 = 800\text{ cm}^2$ .



25.

$8\text{ dm } 4\text{ cm}$ .

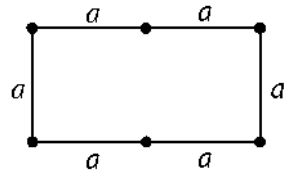
$a$

$2a$ ,

$L = 6a$ ,  $L = 8\text{ dm } 4\text{ cm} = 84\text{ cm}$ ,  
 $6a = 84$ ,  $a = 14\text{ cm}$ .

$14\text{ cm}$   $28\text{ cm}$ ,

$P = 14 \cdot 28 = 392\text{ cm}^2$ .



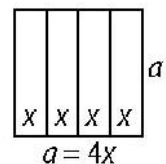
26.

$30\text{ cm}$ .

$x$

$a = 4x$ ,

$2(x + 4x) = 10x$ ,



$$10x = 30, \dots x = 3 \text{ cm} .$$

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

$$P = 12 \cdot 12 = 144 \text{ cm}^2 .$$

27.

24 cm .

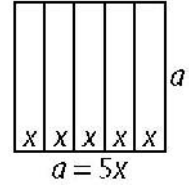
$$x$$

$$2(x + a) = 2(x + 5x) = 12x ,$$

$$12x = 24, \dots x = 2 \text{ cm} .$$

$$a = 5 \cdot 2 = 10 \text{ cm} ,$$

$$P = 10 \cdot 10 = 100 \text{ cm}^2 .$$



28.

96 m .

$$a \quad b ,$$

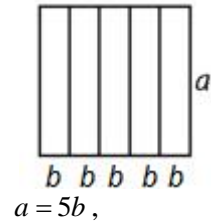
$$5 \cdot 2(a + b) = 10a + 10b .$$

$$2a = 2 \cdot 5b = 10b .$$

$$10a + 10b = 10a + 2a = 12a .$$

$$12a = 96, \dots a = 96 : 12 = 8 \text{ cm} .$$

$$4a = 4 \cdot 8 = 32 \text{ cm} .$$

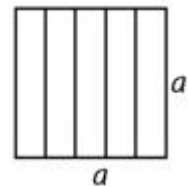


$$($$

$$a$$

,

-  
-  
).



$$L = 4a ,$$

$$L' = L + 4 \cdot 2a = L + 2 \cdot 4a = L + 2L = 3L .$$

$$3L = 96,$$

$$L = 32 \text{ cm}.$$

$$L = 32 \text{ cm}.$$

29.

		14
	28	
18		

//		14
	28	
//	18	/

	//	14
/	//	28
/	18	/

/		/ 14
	28	//
18		//

$$L = 18 + 28 + 14 = 60.$$

30.

5

, 11

4 m .

5 4 4 m , 11  
10 4 m . ,

$$4 \cdot 4 = 16 \text{ m} \quad 4 \cdot 10 = 40 \text{ m} .$$

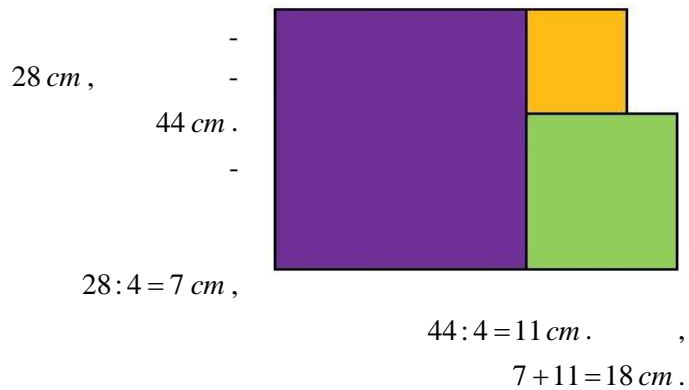
$$2 \cdot (16 + 40) = 112 \text{ m} ,$$

$$16 \cdot 40 = 640 \text{ m}^2 .$$

31.

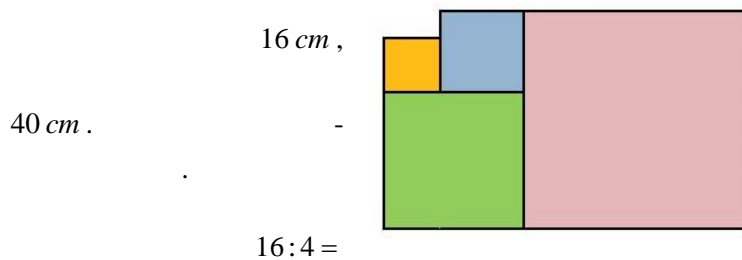
$20 \cdot 10 = 200 \text{ m}^2$ ,  
 $2 \cdot (2 \cdot 20 + 2 \cdot 10) = 120 \text{ m}$ .

32.



$L = 3 \cdot 18 + 2 \cdot 11 + 2 \cdot 7 + 11 - 7 = 94 \text{ cm}$

33.



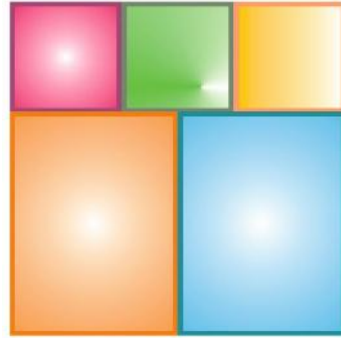
$4 \text{ cm}$ ,  
 $40 : 4 = 10 \text{ cm}$ .  
 $10 - 4 = 6 \text{ cm}$ ,  
 $10 + 6 = 16 \text{ cm}$ .

$$L = 3 \cdot 16 + 2 \cdot 10 + 2 \cdot 4 + 6 + (6 - 4) = 84 \text{ cm}.$$

34.

5

320 cm .



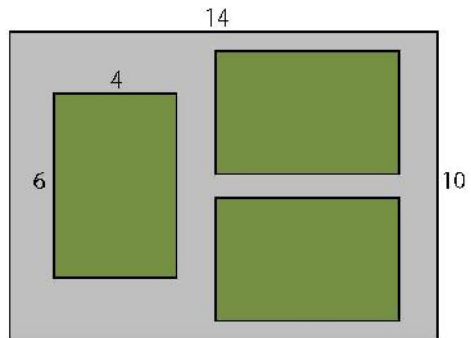
$$320 : 4 = 80 \text{ cm} .$$

$$3 \cdot 80 = 240 \text{ cm} .$$

$$240 : 2 = 120 \text{ cm} \quad 240 - 80 = 160 \text{ cm} .$$

$$2 \cdot 120 + 2 \cdot 160 = 560 \text{ cm} .$$

35.



$$3 \cdot (6 \cdot 4) = 72 .$$

$$14 \cdot 10 - 72 = 68 .$$

36.

2013 cm<sup>2</sup>

33 cm ,

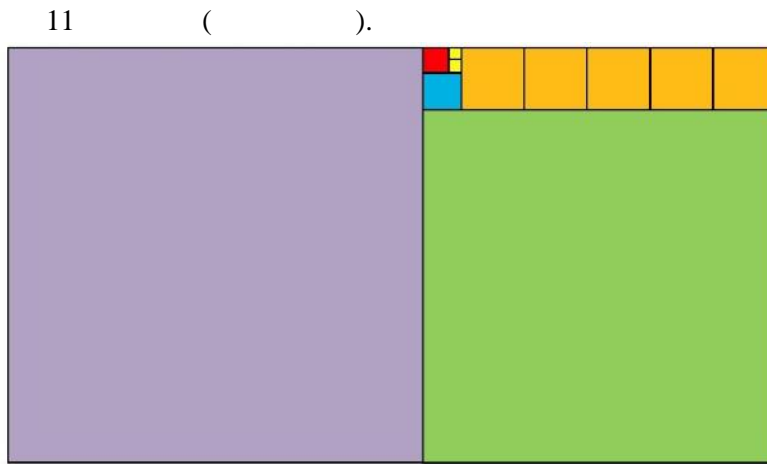
( )

?

$$2013 : 33 =$$



61 cm .



37.

2 cm ,

3 cm ,

81 cm<sup>2</sup> .

$x \cdot x = 81$ ,

$x = 9$  cm .

x .

$a = 9 - 3 = 6$  cm     $b = 9 + 2 = 11$  cm .

$P = ab = 6 \cdot 11 = 66$  cm<sup>2</sup> ,

$L = 2(a + b) = 2(6 + 11) = 34$  cm .

38.

AB

ABCD

2 cm

BC .

1 cm ,

3 cm ,

ABCD 41 cm<sup>2</sup> .

ABCD .

$\overline{AB} = a$      $\overline{BC} = b$  ,     $a = b + 2$  .

ABCD  $P = b \cdot b + 2b$  ,

$P' = b \cdot b + 2 \cdot b + 1 \cdot b + 3 \cdot b + 3 \cdot 1 + 3 \cdot 2$

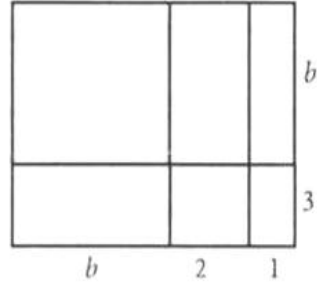
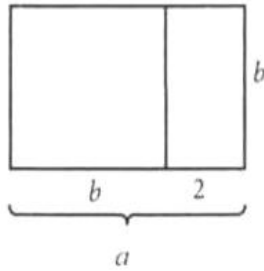
( ) .

$b \cdot b + 2 \cdot b + 41 = b \cdot b + 2 \cdot b + 1 \cdot b + 3 \cdot b + 3 \cdot 1 + 3 \cdot 2$ ,

$$41 = b + 3b + 6 + 3,$$

$$4b + 9 = 41m$$

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



$$, a = b + 2 = 10 \text{ cm}$$

ABCD

$$P = 10 \cdot 8 = 80 \text{ cm}^2.$$

39.

6 cm 9 cm

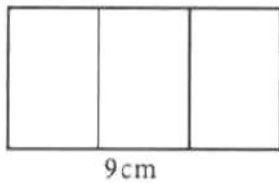
9 cm

6 cm ( ).

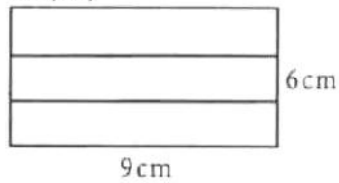
$$a = 9 : 3 = 3 \text{ cm} \quad b = 6 \text{ cm}.$$

$$2(a + b) = 18 \text{ cm}.$$

I случай



II случай



$$a = 9 \text{ cm} \quad b = 6 : 3 = 2 \text{ cm}.$$

$$2(a + b) = 22 \text{ cm}.$$

40. 40

$a = 1 \text{ cm}$

,

.

?

$$40 = 40 \cdot 1 = 20 \cdot 2 = 10 \cdot 4 = 8 \cdot 5,$$

- :
- 1)  $a = 40 \text{ cm}, b = 1 \text{ cm} \quad L = 2(40 + 1) = 82 \text{ cm},$
  - 2)  $a = 20 \text{ cm}, b = 2 \text{ cm} \quad L = 2(20 + 2) = 44 \text{ cm},$
  - 3)  $a = 10 \text{ cm}, b = 4 \text{ cm} \quad L = 2(10 + 4) = 28 \text{ cm}$
  - 4)  $a = 8 \text{ cm}, b = 5 \text{ cm} \quad L = 2(8 + 5) = 26 \text{ cm}.$

,

.

$$a = 8 \text{ cm}, b = 5 \text{ cm} \quad -$$

41. -

5 m

12 m .

14 ?

.

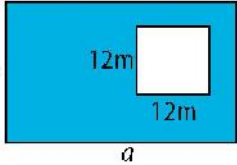
20 m,

5 m, . . . 15 m .

$20 \cdot 15 = 300 \text{ m}^2,$

$12 \cdot 12 = 144 \text{ m}^2,$

$300 - 144 = 156 \text{ m}^2 .$



12 m

12 m ,

4 . , 4

, 10 -

.

5 , 4

4 5 m,

3

42. -

2013 cm      1 cm

,

,

.

0, 1, 4, 9, 5 6.

3,

$$43 \cdot 43 + 10 \cdot 10 + 8 \cdot 8 = 1849 + 100 + 64 = 2013$$

$$4 \cdot 43 + 4 \cdot 10 + 4 \cdot 8 = 172 + 40 + 32 = 244 \text{ cm}.$$

43.

64

$9 \text{ cm}^2$ .

$$3 \cdot 3 = 9$$

$3 \text{ cm}.$

8

$$8 \cdot 3 = 24 \text{ cm}.$$

$$4 \cdot 24 = 96 \text{ cm}.$$

44.

$260 \text{ cm}.$

64

$$2 + 2 \cdot 64 = 130$$

$$26 : 130 = 2 \text{ cm}.$$

$$2 \cdot 2 = 4 \text{ cm}^2,$$

$$4 \cdot 64 = 256 \text{ cm}^2.$$

45.

$16 \text{ m}^2$

20%,

20%.

?

$$16 = 4 \cdot 4,$$

$16 \text{ m}^2$

$$a = 4 \text{ m} = 400 \text{ cm} .$$

20%

$$a + 0,2a = 400 + 80 = 480 \text{ cm} .$$

20%

$$a - 0,2a = 400 - 80 = 320 \text{ cm} .$$

$$P = 480 \cdot 320 = 153600 \text{ cm}^2 .$$

$$16 \text{ m}^2 = 160000 \text{ cm}^2 > 153600 \text{ cm}^2$$

46.

8 cm,

6,8 dm.

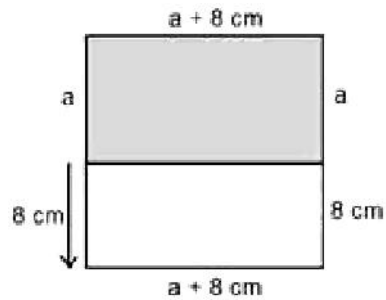
?

$$6,8 \text{ dm} = 68 \text{ cm} .$$

$$L = 4(a + 8),$$

$$4(a + 8) = 68, \dots a + 8 = 17,$$

$$a = 9 \text{ cm} .$$



$$L' = 2(a + a + 8) = 2(9 + 17) = 52 \text{ cm} .$$

$$6,8 \text{ dm} = 68 \text{ cm} .$$

68 cm

$$68 : 4 = 17 \text{ cm} .$$

$$17 - 8 = 9 \text{ cm} .$$

$$L' = 2(9 + 17) = 52 \text{ cm} .$$

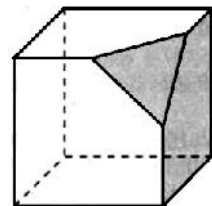
$$6,8 \text{ dm} = 68 \text{ cm} .$$

8 cm ,

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

$$68 - 16 = 52 \text{ cm} .$$

47.

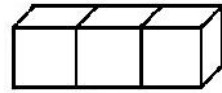


?

12 ,  
 12 ,  
 ), (  $(12 \cdot 4) : 2 = 24$  .  
 ,  
 , 6 8 ,  
 $6 + 8 = 14$  .

48.

( )  
 $350 \text{ cm}^2$  .  
 ?



14

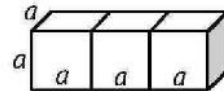
$350 : 14 = 25 \text{ cm}^2$  .

$25 \cdot 6 = 150 \text{ cm}^2$  .

49.

$1400 \text{ cm}^2$

14  
 ,  $a$



$14a^2 = 1400$  ,

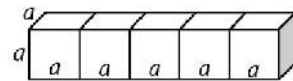
$a^2 = 100 \text{ cm}^2$  .

$P = 6a^2 = 600 \text{ cm}^2$  .

50.

$1408 \text{ cm}^2$

22



$a$  .

$22a^2 = 1408 \text{ cm}^2$  ,

$a^2 = 1408 : 22 \text{ cm}^2$  ,

$$a^2 = 64 \text{ cm}^2.$$

$$P = 6a^2 = 6 \cdot 64 \text{ cm}^2 = 384 \text{ cm}^2.$$

51.

$24 \text{ cm}^2,$



$24 : 6 = 4 \text{ cm}^2.$

$26$

$26 \cdot 4 = 104 \text{ cm}^2.$

$22$

$22 \cdot 4 = 88 \text{ cm}^2.$

52.

$500 \text{ cm}^3.$

$5 \cdot 5 \cdot 5 = 125$

$5 \text{ cm}.$

$4 \cdot 5 \cdot 20 + 2 \cdot 5 \cdot 5 = 450 \text{ cm}^2.$

$5 \text{ cm} \quad 10 \text{ cm} \quad 2$

$4 \cdot 5 \cdot 10 + 2 \cdot 10 \cdot 10 = 400 \text{ cm}^2.$

$4$

$500 : 4 = 125 \text{ cm}^3$

$4 \times 1 \times 1,$

$4$

$5 \text{ cm},$

$2 \times 2 \times 1,$

$4$

$10 \text{ cm},$

53.

$144 \text{ cm}^3.$

$18$

$144 : 18 = 8 \text{ cm}^3.$

$$2 \cdot 2 \cdot 2 = 8,$$

2 cm .

:

1)  $18 \times 1 \times 1,$

$$4 \cdot 2 \cdot 38 + 2 \cdot 2 \cdot 2 = 296 \text{ cm}^2.$$

2)  $9 \times 2 \times 1,$

$$2 \cdot 18 \cdot 4 + 2 \cdot 4 \cdot 2 + 2 \cdot 18 \cdot 2 = 232 \text{ cm}^2.$$

3)  $6 \times 3 \times 1,$

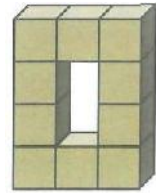
$$2 \cdot 12 \cdot 2 + 2 \cdot 6 \cdot 2 + 2 \cdot 12 \cdot 6 = 216 \text{ cm}^2.$$

4)  $3 \times 3 \times 2,$

$$2 \cdot 6 \cdot 6 + 2 \cdot 6 \cdot 4 + 2 \cdot 4 \cdot 6 = 168 \text{ cm}^2.$$

54.

2 cm ,



$$V' = 2 \cdot 2 \cdot 2 = 8 \text{ cm}^3,$$

$$V = 10 \cdot V' = 10 \cdot 8 = 80 \text{ cm}^3.$$

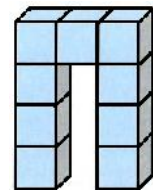
4

2

$$P = 10 \cdot 4 \cdot 2 \cdot 2 = 160 \text{ cm}^2.$$

55.

3 cm .



$$V = 9 \cdot 3 \cdot 3 \cdot 3 = 243 \text{ cm}^3.$$



$$P = (7 \cdot 4 + 2 \cdot 5) \cdot 3 \cdot 3 = 342 \text{ cm}^2.$$

56.

212

1 cm ?

$$212 = 2 \cdot 2 \cdot 53.$$

, . .

212

, 212

1 cm

$$: 1 \times 1 \times 212, 1 \times 2 \times 106, 1 \times 4 \times 53, 2 \times 2 \times 53.$$

57.

30

1 cm ?

$$, 30 = 1 \cdot 1 \cdot 30 = 1 \cdot 2 \cdot 15 = 1 \cdot 3 \cdot 10 = 1 \cdot 5 \cdot 6 = 2 \cdot 3 \cdot 5, -$$

30

5

:

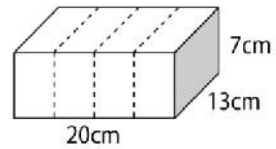
$$1 \times 1 \times 30, 1 \times 2 \times 15, 1 \times 3 \times 10, 1 \times 5 \times 6, 2 \times 3 \times 5.$$

58.

20 cm, 13 cm 7 cm

5 cm, 13 cm 7 cm .

?



13 cm 7 cm .

$$3 \cdot 2 \cdot 13 \cdot 7 = 546 \text{ cm}^2.$$

59.

6 cm, 8 cm 9 cm

6 cm, 8 cm 3 cm ,

6 cm 8 cm .

6 cm 8 cm

$$4 \cdot 8 \cdot 6 = 192 \text{ cm}^3.$$

60.

4 cm, 6 cm

8 cm .

$$48 \text{ cm}^2 .$$

$$48 \text{ cm}^2 .$$

$$48 : 2 = 24 \text{ cm}^2 .$$

4 cm, 6 cm 8 cm ,

$$24 \text{ cm}^2 .$$

4 cm, 6 cm ,

8 cm .

4 cm, 4 cm 6 cm .

61.

$$25 \text{ dm}^2 .$$

$$5 \text{ dm}^2 .$$

$$25 = 5 \cdot 5$$

$$a = b = 5 \text{ dm} .$$

$$5 = 5 \cdot 1$$

$$c = 1 \text{ dm} .$$

$$V = abc = 25 \text{ dm}^3$$

62.

5 cm, 6 cm, 8 cm

?

8 cm .

5 cm, 6 cm, 4 cm

$$2 \cdot 5 \cdot 6 = 60 \text{ cm}^2 .$$

- 
62.  $6\text{ cm}$ .  
 $5\text{ cm}, 4\text{ cm}, \dots$   
 $4 \cdot 5 \cdot 4 = 80\text{ cm}^2$ .  
 $80 + 60 = 140\text{ cm}^2$ .
63.  $144\text{ cm}^2$ .  
 $\frac{2}{3}$   
 $144 = 12 \cdot 12$   
 $a = 12\text{ cm}$ .  
 $(144 : 3) \cdot 2 = 48 \cdot 2 = 96\text{ cm}^2$ .  
 $a = 12\text{ cm}$ ,  
 $b = 96 : 12 = 8\text{ cm}$ .  
 $V = a \cdot a \cdot b = 12 \cdot 12 \cdot 8 = 1152\text{ cm}^3$ .
64.  $5\text{ cm}, 8\text{ cm}$   $10\text{ cm}$ .  
 $180\text{ cm}^2$ .  
 $5 \cdot 8 = 40\text{ cm}^2$ ,  
 $5 \cdot 10 = 50\text{ cm}^2$   $8 \cdot 10 = 80\text{ cm}^2$ .  
 $180 = 2 \cdot 90 = 2 \cdot (40 + 50) = 2 \cdot 40 + 2 \cdot 50$   
 $40\text{ cm}^2$   $50\text{ cm}^2$ .  
 $10\text{ cm}$ ,  $8\text{ cm}$ .  
 $5\text{ cm}, 4\text{ cm}$   $5\text{ cm}$ .
65.  $8\text{ cm}, 12\text{ cm}$   $14\text{ cm}$
-

8 cm, 4 cm 7 cm .

8 cm 12 cm .

$$2 \cdot 8 \cdot 12 = 192 \text{ cm}^2 .$$

8 cm

14 cm .

$$2 \cdot 2 \cdot 8 \cdot 14 = 448 \text{ cm}^2 .$$

$$192 + 448 = 640 \text{ cm}^2 .$$

66.

15 cm, 10 cm 8 cm

5 cm, 10 cm

4 cm .

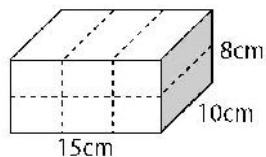
?

10 cm ,

15 cm

8 cm

( ) .



10 cm 8 cm ,

15 cm 10 cm .

$$2 \cdot 15 \cdot 10 + 4 \cdot 10 \cdot 8 = 620 \text{ cm}^2 .$$

67.

448 cm .

126 cm .

$a, b, c$  ,

$$4(a + b + c) = 448 , \quad 2(a + b) = 126 \quad 2a = b .$$

$$a + b + c = 112 \quad a + b = 63 ,$$

$$c = 112 - (a + b) = 112 - 63 = 49 \text{ cm} .$$

$$a + b = 63 \quad 2a = b , \quad 3a = 63 , \quad \therefore a = 21 \text{ cm} \quad b = 42 \text{ cm} .$$

$$P = 2(ab + bc + ca) = 7938 \text{ cm}^2.$$

68.

28 cm .

$$4(a + b + c) = 28, \quad a, b, c, \quad a = b.$$

$$2a + c = 7.$$

:

1)  $a = 1 \text{ cm}, c = 5 \text{ cm} \quad b = 1 \text{ cm}, \quad P = 2(ab + bc + ca) = 30 \text{ cm}^2.$

2)  $a = 2 \text{ cm}, c = 3 \text{ cm} \quad b = 2 \text{ cm}, \quad P = 2(ab + bc + ca) = 32 \text{ cm}^2.$

3)  $a = 3 \text{ cm}, c = 1 \text{ cm} \quad b = 3 \text{ cm}, \quad P = 2(ab + bc + ca) = 30 \text{ cm}^2.$

69.

16 cm, 18 cm 9 cm .

4 cm, 18 cm 9 cm ,

?

18 cm 9 cm . -

3 , -

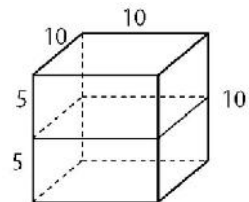
2 · 3 -

18 cm 9 cm

$$2 \cdot 3 \cdot 9 \cdot 18 = 972 \text{ cm}^2.$$

70.

5 cm .



5 cm ,

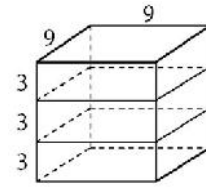
10 cm . ,

10 cm ,

$$P = 6 \cdot 10 \cdot 10 = 600 \text{ cm}^2.$$

71.

3 cm .



3 cm ,

9 cm .

9 cm ,

$$P = 6 \cdot 9 \cdot 9 = 486 \text{ cm}^2 .$$

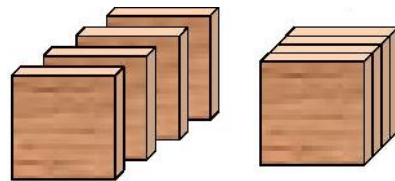
72.

4

16 cm, 16 cm 4 cm

$$4 \cdot 4 = 16 \text{ cm} ,$$

16 cm ( ) .



$$P = 6 \cdot 16 \cdot 16 = 1536 \text{ cm}^2 .$$

73.

12 cm , 6 cm

4 cm

$$12 \cdot 6 \cdot 4 \text{ cm}^3 .$$

$$6 \cdot 12 \cdot 6 \cdot 4 = 2 \cdot 3 \cdot 12 \cdot 6 \cdot 4 = 12 \cdot (2 \cdot 6) \cdot (3 \cdot 4) = 12 \cdot 12 \cdot 12 \text{ cm}^3 .$$

12 cm ,

$$6 \cdot 12 \cdot 12 = 864 \text{ cm}^2 .$$

( ) 12 cm 6 cm ,

12 cm, 12 cm 6 cm .

12 cm .

$$6 \cdot 12 \cdot 12 = 864 \text{ cm}^2 .$$

74. ( ) -  
 30 cm, 35 cm 50 cm .

?

$$P = 2 \cdot 30 \cdot 50 + 2 \cdot 30 \cdot 35 + 35 \cdot 50 = 3000 + 2100 + 1750 = 6850 \text{ cm}^2$$

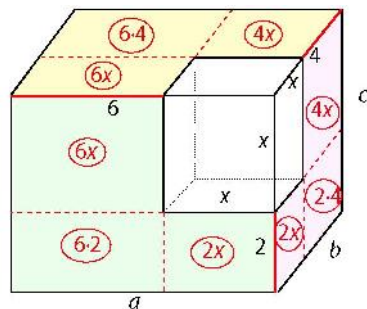
75. 60 cm 50 cm ,  
 60 cm 40 cm .  
 )  
 )

60 cm , 50 cm  
 40 cm . , 50 cm  
 40 cm .  
 ) , 50 cm 40 cm . -

$$P = 2 \cdot 60 \cdot 50 + 2 \cdot 60 \cdot 40 + 50 \cdot 40 = 10800 \text{ cm}^2 .$$

76. 2 cm , 4 cm ,  
 6 cm 568 cm<sup>2</sup>

$a, b, c$   
 $x$   
 2 cm , 4 cm ,  
 6 cm ,  
 $2x + 2 \cdot 4 + 4x = 6x + 8 ,$



$$4x + 6 \cdot 4 + 6x = 10x + 24$$

$$6x + 6 \cdot 2 + 2x = 8x + 12,$$

$$2(6x + 8 + 10x + 24 + 8x + 12) = 48x + 88.$$

$$, 48x + 88 = 568,$$

$$x = 10 \text{ cm}.$$

$$12 \text{ cm}, 14 \text{ cm}, 16.$$

$$P' = 6 \cdot 10 \cdot 10 = 600 \text{ cm}^2,$$

$$P' = 2(12 \cdot 14 + 14 \cdot 16 + 16 \cdot 12) = 1168 \text{ cm}^2.$$

77.

1 cm,

2 cm

3 cm

262 cm<sup>2</sup>

x.

1 cm,

2 cm

3 cm,

$$1 \cdot x + 1 \cdot 3 + 3 \cdot x = 4x + 3,$$

$$2 \cdot x + 2 \cdot 1 + 1 \cdot x = 3x + 2$$

$$3 \cdot x + 2 \cdot 3 + 2 \cdot x = 5x + 6.$$

$$2 \cdot (4x + 3 + 3x + 2 + 5x + 6) = 2 \cdot (12x + 11) = 24x + 22.$$

$$, 24x + 22 = 262,$$

$$24x = 240, \dots x = 10 \text{ cm}.$$

$$P = 6 \cdot 10 \cdot 10 = 600 \text{ cm}^2.$$

$$P' = P + 262 = 862 \text{ cm}^2.$$

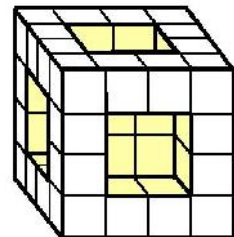
78.

40

96 cm<sup>2</sup>.

64

4



$$96 \text{ cm}^2,$$

$$96 : 6 = 16 \text{ cm}^2.$$



---

$$4 \cdot 4 + 4 \cdot 2 = 24$$

$$6 \cdot 24 \cdot 16 = 2304 \text{ cm}^2 .$$

$$96 \text{ cm}^2 ,$$

$$96 : 6 = 16 \text{ cm}^2 ,$$

$$4 \text{ cm} .$$

$$4 \cdot 4 = 16 \text{ cm} ,$$

$$6 \cdot 16 \cdot 16 = 1536 \text{ cm}^2 .$$

$$4$$

$$6 \cdot 8 \cdot 16 = 768 \text{ cm}^2 .$$

$$1536 + 768 = 2304 \text{ cm}^2 .$$

---

**4.**

1.

... , , , ,  
... , ... ?  
.  
... ,  
... ,  
4,  
... , -  
... , ... -  
... .

2.

: „ 11 , -  
13 .“ ? -  
... 31. 11 , -  
1. .

3.

: „ : „ .“ .  
... “ ?  
... .  
... , -  
... , -  
... .

4.

... . -  
... .  
... ,  
... ,  
... ?

---

5.

1)

2)

3)

6.

7.

1. ?  
 k  
 ,  
 ,  
 .

8.

), ) , ) , )  
 31 ,  
 .  
 28- , 29, 30 31 . : ( 29,  
 30, 31) ( 29, 30, 31)  
 ( 29, 30, 31). ,  
 .

9.

), k, ) , ) , ) ?  
 31 , -  
 .  
 28- (29., 30. 31. ).  
 : ( 29, 30, 31) ( 29,  
 30, 31) ( 29, 30, 31). ,  
 .

10.

, , , , -  
 -  
 ( 92 ).  
 ?  
 . e -  
 :  
 1) (31), (30), (31), (30), (31), (31),  
 2) (31), (31), (30), (31), (30),

- 3) (31), (31), (30), (31), (30), -  
 (31), (31), ,  
 4) (30), (31), (30), (31),  
 (31), (29),  
 5) (31), (29), (31), (30), (31),  
 (30).

11. , 6 ,  
 ?  
 . ,  
 , . 29 .  
 366 . :  
 :  
 : , , , , ,  
 : , , , , , ,  
 :  
 : , , , , , ,  
 : , , , , , .

12. 7 , 7  
 7 .  
 ?  
 7  
 $(7 + \frac{7}{2}) : 3 = \frac{21}{2} : 3 = \frac{7}{2} = 3\frac{1}{2}$

I	3	1	3
II	3	1	3
III	1	5	1

I	2	3	2
II	2	3	2
III	3	2	3

13. 3 , , ? , . , . , .

14. 4 , 5 6 .  
?  
11 ,  
5+6=11,  
12 , .

15. , .  
5 ?  
12 , 12 = 3 · 4  
4 , ...  
5 , 13 ,  
13 = 3 · 4 + 1, 5 .

16. 42 12 , 14 16  
.  
?  
30 16  
14 ,  
31 ,  
1 .

17.

$\frac{3}{4} \cdot \frac{3}{6} = \frac{3}{4} \cdot \frac{1}{2} = \frac{3}{8}$ .  
 The answer is  $\frac{3}{8}$ .

18.

15?



19.

The sequence is: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100.  
 The difference between consecutive terms is 10.  
 The next term is  $100 + 10 = 110$ .

20.

$8 \cdot 7 + 4 = 60$   
 $10 = (7 - 4) + 7$ .

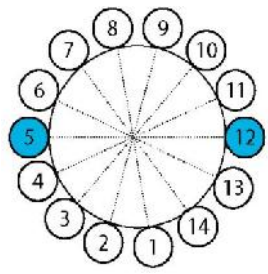
3 , 7 ,  
 $3+7=10$  .

21. 1, 2, 3, ...

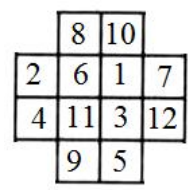
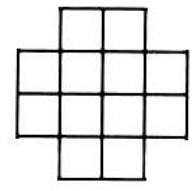
12,  
 ?  
 12 6  
 5 12

5.

5 -  
 6  
 $6+6+2=14$



22.



23. 1, 2, ..., 8

) ?  
 ) 1, 2, ..., 8

. )

S,



$$6S = 3(1 + 2 + \dots + 8) .$$

$$S = 18 .$$

) ,  
 1, 8, 2, 7 ( ),  
 6, 3, 5, 4.

24. 11, 7 6 .

?

$$11 + 7 + 6 = 24$$

$$24 : 3 = 8$$

7

$$(11, 7, 6) \rightarrow (4, 14, 6) \rightarrow (4, 8, 12) \rightarrow (8, 8, 8) .$$

25.

7

?

1

3

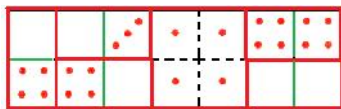
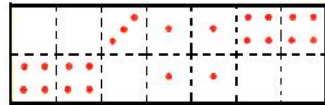
$$3 - 1 = 2$$

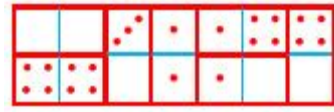
$$1 + 7 \cdot 2 = 15$$

7

26.

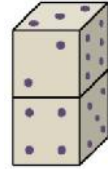
( )





27.

7.



10.

?

5 2 ). 6 1 ( 4 3, 10, 1 . , 6 .

28.

27 , 13

?

$$27 + 1 + 13 = 41.$$

21-

21- 28- 6 .

29.

?

$$3 \cdot 11 = 33 \quad , \quad 2 \cdot 5 + 1 = 11 \quad ,$$

30. 5. 2055.

5.5.55.

---

XXI

13 : 1.1.11; 2.2.22; 3.3.33; 4.4.44; 5.5.55;  
6.6.66; 7.7.77; 8.8.88; 9.9.99; 1.11.11; 11.1.11; 11.11.11; 22.2.22.  
13

31. : ,  
?  
0:1. 3 ,  
0:0,  
3:0.

32. : , -  
3  
2  
?  
2 , 0:1.  
0:0.  
2:0 1:0. : 2:0,  
1:0, 0:0, 0:0, 0:1 0:1.

33. 507 .  
( )  
?

506  
 506  
 34. ( ) ( ), ( ) -

(43210, 54321, 65432, 76543, 87654 98765),

9  
 : (10), 210, ..., (9876543210).

35. 100  
 2000.  
 6000. 3000  
 3456, 4567 5678.  
 3456 3,

36. 30 122000.  
 30  
 :  $30 = 5 \cdot 6 \cdot 1 \cdot 1 \cdot 1 \cdot 1 = 2 \cdot 3 \cdot 5 \cdot 1 \cdot 1 \cdot 1$ .

111156, 111516, 115116, 111165, 111615, 116115,  
 111561, 111651, 115161, 116111, 116151, 116511,  
 111235, 111523, 111352, 111253, 111325, 111532,  
 112135, 112153, 112315, 112351, 112513, 112531,  
 113125, 113152, 113215, 113251, 113512, 113521,  
 115123, 115132, 115213, 115231, 115312, 115321,  
 121135, 121153, 121315, 121351, 121513, 121531,

42

37.

12000

16.

. 16

:

$$18 = 8 \cdot 2 \cdot 1 \cdot 1 \cdot 1 = 4 \cdot 4 \cdot 1 \cdot 1 \cdot 1 = 4 \cdot 2 \cdot 2 \cdot 1 \cdot 1 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 1. \quad (*)$$

12000

1

(\*)

: 11812, 11182,

11218, 11128,

: 11414, 11144,

: 11422, 11242, 11224,

9

38.

18.

.

$$18 = 9 \cdot 2 \cdot 1 \cdot 1 \cdot 1 = 3 \cdot 3 \cdot 2 \cdot 1 \cdot 1 = 6 \cdot 3 \cdot 1 \cdot 1 \cdot 1$$

18

.

2 6.

:

91112, 19112, 11912, 11192, 33112, 31312, 31132,

13312, 13132, 11332, 31116, 13116, 11316, 11136.

, 14

39.

5

3000.

?

.

5

,

:

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

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

: 5, 4 3.

: 5000, 4100,

4010, 4001, 3200, 3020, 3002, 3110, 3101, 3011.

10

: 5000, 4100, 4010, 3200, 3020,

3002, 3110.

40.

33? ?

9999. 36

9989, 9899 8999. 35 : 9998,

8998, 8989, 8899 9997, 9979, 9799, 7999. 34 : 9988, 9898, 9889,

15 -

33, 11

41. 34243 777.

?

$\overline{abba}$   $\overline{ab}$  -

90.

42. ?

$\overline{abcba}$

$\overline{abccba}$

$\overline{xyzzyx}$

$\overline{xyzzyx}$ .

43. 3?

$\overline{3ab3}$ .  $a$

10  $b$  -

$10 \cdot 10 = 100$  , ...

100

3.

44. 12, -

5.

5.

---

: 05, 23 42.

12,

5. ,

$12 - 5 = 7$

: 70, 61, 52, 43, 34, 35 16.

$3 \cdot 7 = 21$

45.

3, 4, 5, 6, 7, 8 9,

1, 2,

9 (

1 ).

10

$9 \cdot 10 \cdot 1 = 90.$

46.

1, 2, 3, 4, 5, 6, 7, 8, 9.

9

10

$9 \cdot 10 = 90$

9

90

10

( )

$9 \cdot 10 \cdot 10 \cdot 1 = 900$

47.

11

?

2

$11 - 4 \cdot 2 = 3.$

1)

5	2	2	2
2	5	2	2
2	2	5	2
2	2	2	5

2)

2	2	3	4
2	2	4	3
2	3	2	4
2	3	4	2
2	4	2	3
2	4	3	2
3	2	2	4
3	2	4	2
3	4	2	2
4	2	2	3
4	2	3	2
4	3	2	2

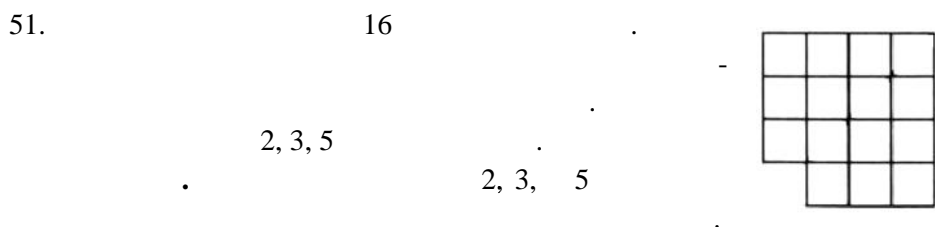
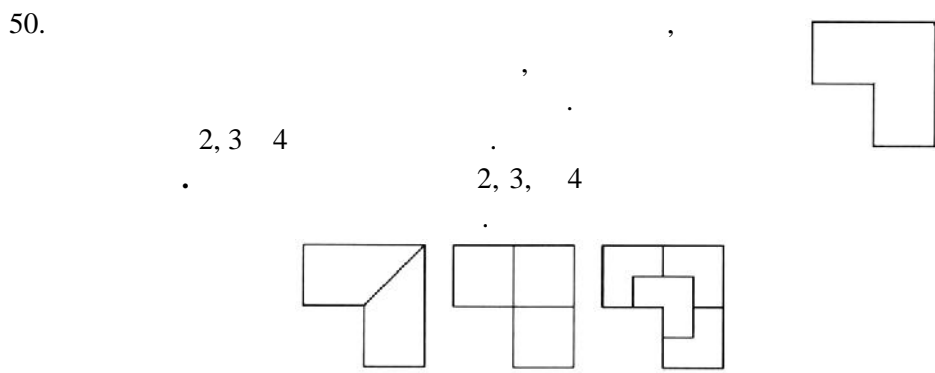
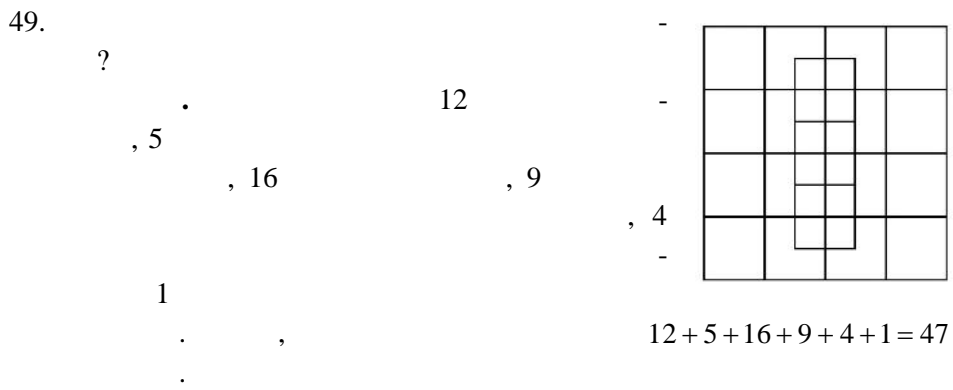
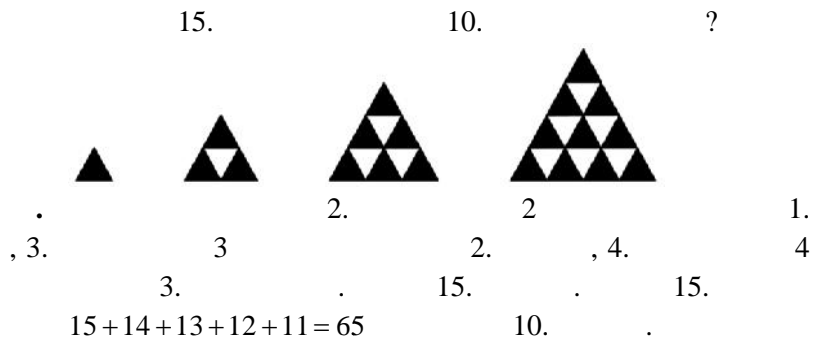
3)

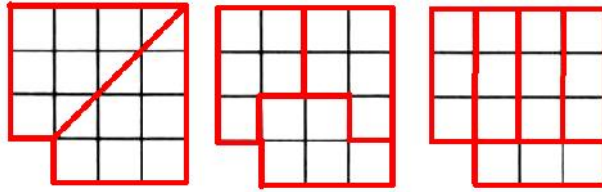
2	3	3	3
3	2	3	3
3	3	2	3
3	3	3	2

$$4 + 12 + 4 = 20$$

48.







52.

4

	0	0	0		
		△	△		
		△	△		
					0

36

9

0	0	0			
	△	△			
	△	△			
					0

53.

)

(

	12	14	13			
5	8	11	3	2	7	17
15	10	9	3	18	19	6
			4	16	8	

200.

200 : 4 = 50.

20

20 : 4 = 5

12 + 13 + 14 = 39,

11.

	12	14	13			
5	8	11	3	2	7	17
15	10	9	3	18	19	6
			4	16	8	

3 8,

54.

9 cm 4 cm

?

$$9 \cdot 4 = 36 \text{ cm}^2.$$

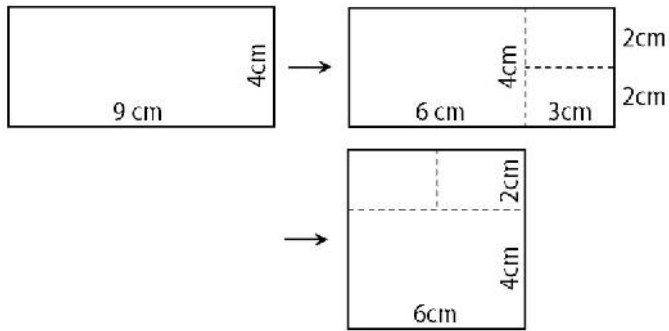
$$36 \text{ cm}^2,$$

6 cm.

$$4 \cdot 6 = 24 \text{ cm}.$$

6 cm 4 cm,

3 cm 2 cm ( ).



55.

)

?

)

4

)

?

2

)

?

?

)

2,

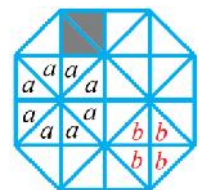
4

2

$$2 + 4 + 4 + 2 = 12$$

)

4



a.

5

) 2

b.

5

)

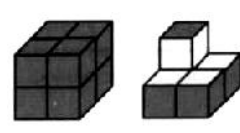
$12 + 5 + 5 = 22$

56. 8

?

8

6



57. 3 cm

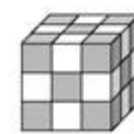
1 cm.

( ) . ?

5

4

$5 + 4 + 5 = 14$



58. 13 14

?

9

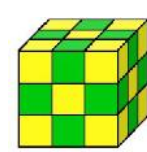
27

5

13

14

$13 = 4 + 5 + 4$   $14 = 5 + 4 + 5$ ,

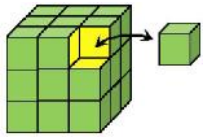


4, 5 4.  
5

59.

27

)  
 )  
 )  
 ) ?  
 ) : 8 (  
 ), 12 ( 12- 1  
 ), 6 ( 1  
 ),  
 )  $3 \cdot 3 \cdot 3 - (8 + 12 + 6) = 27 - 26 = 1.$

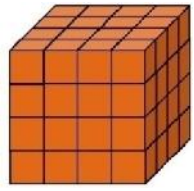


60.

4 cm

1 cm ( )

) ?  
 ) ?  
 ) ?  
 ) ?  
 ) 8  
 ) 24 ( 12-  
 ) 2 )  
 ) 24 ( 4  
 ) )  
 )  $4 \cdot 4 \cdot 4 - (8 + 24 + 24) = 8$

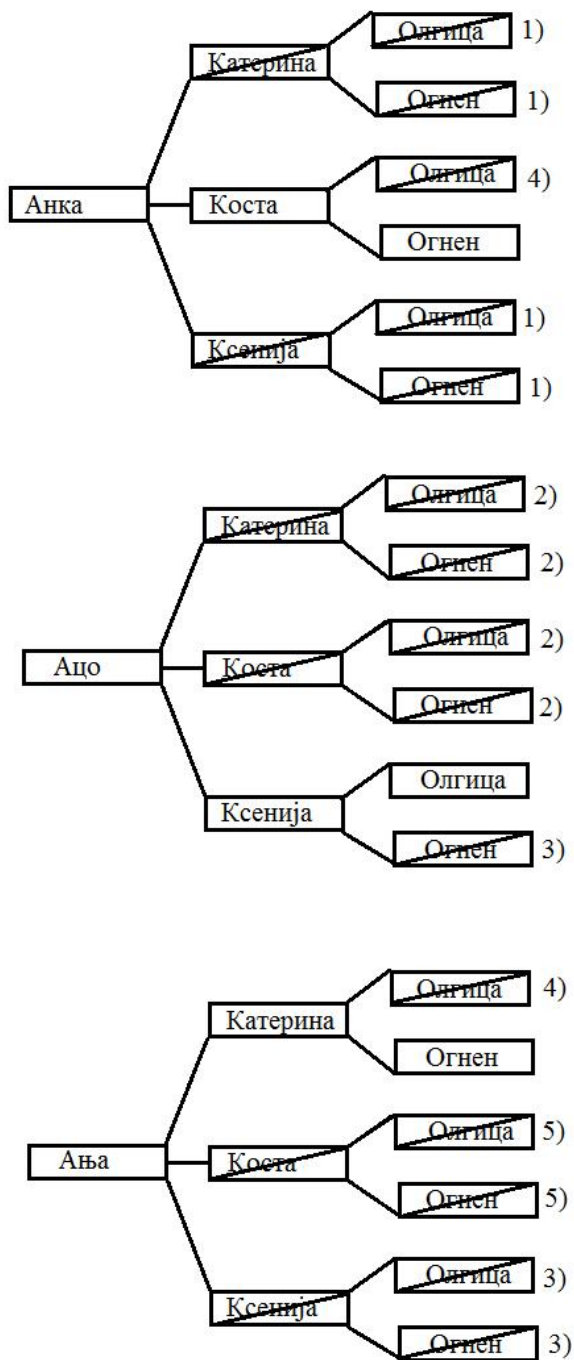


61.

1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

62.

- 1)
- 2)
- 3)
- 4)
- 5)



63.

( , ), ( , )  
( ).

: , ,  
, ?  
“ ”  
“ ”

- 1) , ,
- 2) , ,
- 3) , ,
- 4) , ,
- 5) , ,

