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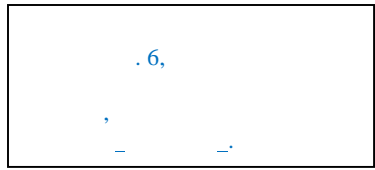
6. (4)

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26% , 37%
42% , 37%
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42%
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7. (2)

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8. (4)

2006 - 2013.
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$y_t = 82,5 + 26,9 x.$

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26,9%
26,9%
8250
8250

26,9

9. 1:

			xf
3-5	16	4	64
5-7	13	6	78
7-9	14	8	112
9-11	10	10	100
11	7	12	84
	60	-	438

1) 7000 :

$$p = \frac{f}{n} \cdot 100 = \frac{16+13}{60} \cdot 100 = 48,33\%$$

7000 . (3)

2) $\bar{x} = \frac{\sum xf}{\sum f} = \frac{438}{60} = 7,3$

7,3 . (3+1)

3) 1 :

$$Mo = l_1 + \frac{f_2}{f_1 + f_2} \cdot i = 3 + \frac{13}{0+13} \cdot 2 = 5$$

5 . (3+2)

10. :

$$V_x = \frac{\dagger_x}{x} \cdot 100 = \frac{3,35}{7,42} \cdot 100 = 45,15\%$$

$$V_y = \frac{\dagger_y}{y} \cdot 100 = \frac{1,68}{7,42} \cdot 100 = 22,64\%$$

. (8+2)

11.

	X	Y	X	YY	Y
	7,62	87	58,06	7569	662,94
	8,34	102	69,56	10404	850,68
	7,85	93	61,62	8649	730,05
	6,71	71	45,02	5041	476,41
	9,83	128	96,63	16384	1258,24
	8,86	117	78,5	13689	1036,62

$$\bar{x} = \frac{\sum x}{n} = \frac{49,21}{6} = 8,2 \quad \bar{y} = \frac{\sum y}{n} = \frac{598}{6} = 99,67$$

$$t_x = \sqrt{\frac{\sum x^2}{n} - \bar{x}^2} = \sqrt{\frac{409,4}{6} - 8,2^2} = 1$$

$$t_y = \sqrt{\frac{\sum y^2}{n} - \bar{y}^2} = \sqrt{\frac{61736}{6} - 99,67^2} = 18,85$$

$$C_{xy} = \frac{\sum xy}{n} - \bar{x}\bar{y} = \frac{5014,94}{6} - 8,2 \cdot 99,67 = 18,53$$

$$r = \frac{C_{xy}}{t_x t_y} = \frac{18,53}{1 \cdot 18,85} = 0,98$$

: , . (8+2)

12. 1) K 2010. ,

- 2010. :

$$y = \frac{130 \cdot 100}{Li} = 87,84 \dots$$

- 2010. :

$$y = \frac{130 \cdot L_i}{100} = 163,8 \dots$$

			x	xy	x^2
2007.	145	54,07	-3	-162,22	9
2008.	131	70,84	-2	-141,67	4
2009.	124	87,84	-1	-87,84	1
2010.	148	130	0	0	0
2011.	126	163,8	1	163,8	1
2012.	136	222,77	2	445,54	4
2013.	162	360,88	3	1082,65	9
Σ	-	1090,2	0	1300,25	28

1) $y_t = a + bx$

$$a = \frac{\sum y}{n} = \frac{1090,2}{7} = 155,74$$

: 155,74 .

$$b = \frac{\sum xy}{\sum x^2} = \frac{1300,25}{28} = 46,44$$

: 46,44 .

: $y_t = 155,74 + 46,44x$ (4+4+2+2)

2)

x 2015. 5

$$y_{2011} = 155,74 + 46,44 \cdot 5 = 387,94$$

: 2015. 387,94^e . (4)

3)

$$G = \sqrt[n-1]{\frac{y_n}{y_1}} \cdot 100 = \sqrt[6]{\frac{360,88}{54,07}} \cdot 100 = 137,21$$

: 137,21%, 37,21%. (4+2)

13.

	p0q0	p1	Ip	Ipq	p1q1=Ipq*p0q0/100	p0=p1*100/Ip	q1=p1q1/p1	p0q1=p0*q1
A	495	110	200	266,667	1320	55	12	660
	1764	210	250	261,905	4620	84	22	1848
	900	135	180	225	2025	75	15	1125
	1375	160	128	151,273	2080	125	13	1625
	4534	615	-	-	10045,01	339	62	5258,01

1) , , :

$$I_p = \frac{\sum p_1 q_1}{\sum p_0 q_1} \cdot 100 = \frac{10045,01}{5258,01} \cdot 100 = 191,04$$

: 2013. 2010.
91,04%. (8+2)

2) , , :

$$I_p = \frac{\sum q_1 p_0}{\sum q_0 p_0} \cdot 100 = \frac{5258,01}{4534} \cdot 100 = 115,97$$

: 2013. 2010.
15,97%. (8+2)