2015 - 2016
9-11

1

1	*2*
2	*1*
3	*1*
4	*1*
5	*2*

2

1	*2*	*9*	*3*
2	*3*	*10*	*3*
3	*4*	*11*	*1*
4	*2*	*12*	*3*
5	*3*	*13*	*3*
6	*2*	*14*	*3*
7	*4*	*15*	*1*
8	*2*		

3

1	*3, 4*	*6*	*1, 2*
2	*2, 3, 4*	*7*	*1, 3, 4*
3	*1, 2, 4*	*8*	*1, 4, 6*
4	*2, 3*	*9*	*2, 5*
5	*2, 3, 4*	*10*	*2, 3, 4*

1. (30   ).

:

–   ,   Y –

.

2Y =   ,   :

$$\frac{\dfrac{3{,}5X}{2{,}5} + \dfrac{5Y}{1{,}8}}{1{,}9\,(\ + Y)} = 2{,}446$$

:   145%

2. (30   ).

:

)

.   ,

,

.

$Q_d = Q_s$: 300 - 5 *   = 11 *   – 180;

300 - 5   = 11 *   – 180

-16   = - 480

= 480: 16

= 30;

Q =300 - 5 * 30

Q = 150

)   ,   ,   ,

.   .

25   .   300- 5 * 25 = 175   .   ,

11 * 25 – 180 = 95   .   .   ,

175 – 95 = 80   .   .

:) 30   150   .   ;

)   80   .

3. (30   ).

:

)

$\begin{cases} MUx/Px=MUy/Py \\ X*Px+Y*Py=I \end{cases}$

$\begin{cases} (10 – X)/1=(21 - 2*Y)/1 \\ X*1+Y*1=10 \end{cases}$

X+Y=10
X=10-Y
10-10+Y=21-2Y
Y+2Y=21
3Y=21
Y=7
X=3

)
$$\begin{cases} MUx/Px=MUy/Py \\ X*Px+Y*Py=I \end{cases}$$

$$\begin{cases} (10 – X)/1,5=(21 - 2*Y)/1 \\ X*1,5+Y*1=10 \end{cases}$$

Y=10-1,5X
10 – X =(21 - 2*(10-1,5X))*1,5
10-X=(21-20+3X)*1,5
10-X=1,5+4,5X
5,5X=8,5
X=1,(54)
Y=10-1,5*1,(54)
Y=7,68

4. (40   ).
          : 40   . · 0,15 = 6   .   .
60   . · 0.3 = 18   .   .
6+18=24   .   .