

가.

1)

가

$$\begin{aligned} & \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ & \frac{1}{2} \times \frac{1}{4} = \frac{1}{8} \\ & \frac{1}{4} \times \frac{1}{4} = \frac{1}{16} \end{aligned}$$

2)

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$$\begin{aligned} & \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ & \frac{1}{2} \times \frac{1}{4} = \frac{1}{8} \\ & \frac{1}{4} \times \frac{1}{4} = \frac{1}{16} \end{aligned}$$

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$$\begin{aligned} & \frac{1}{2} \times \frac{1}{2} = \frac{1}{4} \\ & \frac{1}{2} \times \frac{1}{4} = \frac{1}{8} \\ & \frac{1}{4} \times \frac{1}{4} = \frac{1}{16} \end{aligned}$$

3)

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가 60%

&lt; 1 &gt; :

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▪ : 2001

• : 100,000

▪ : 100%

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2001

500 / .

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		100,000	
	%	100	
1 1	/ .	500	
1	MTD	50,000	

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- : 2001
- : 390,000
- : 100%

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가 , ,

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< 가 ( ) >

	1991	1996	2001	
1 1 ( )	190	220	250	

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가

가

( , , , )

30%

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	1991	1996	2001	
가 ( )	190	220	250	
(%)	20	25	30	
( )	38	55	75	

- :

	1991	1996	2001	
가 ( )	190	220	250	
( )	10	12	12	5%

- 가

(100- )

85%

-

( : pcd)

		1991	1996	2001
	가	190	220	250
		38	55	75
		10	12	12
		228	287	337
	가 (%)	90	88	85
1 1		253	326	396
		1.25	1.25	1.25
1 1		316	408	495

-

	( )				
			(m³/ )		(m³/ )
1996	390,000	326		408	
2001	390,000	396	154,440	495	193,050

0

- . : 2001
- . : 36,136 ( APT 160 )
- . 1 1 : 420 / . ( 4 )
- 

	( )	(%)	( )	1 1 ( )	(m³/ )		
1991	39,300	70	27,500	270	7,000	-	7,000
1996	65,400	90	58,900	310	18,000	-	18,000
2001	83,500	95	79,300	420	33,000	2,200	35,200

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(420 / . )

.	200 pcd	250 pcd	340 pcd	4
	100 pcd	125 pcd	170 pcd	
	50 pcd	63 pcd	85 pcd	"
	100 pcd	125 pcd	170 pcd	"
	60m³/	75 pcd	100 pcd	
	1.04 /m²	1.30 /m²	1.76 /m²	

- 20%

- / 1.35

	(m <sup>3</sup> )	( )	1 1 ( pcd)	(MTD)	
	103,402	5,340	340	1,816	
	347,092	33,840	340	11,506	
	30,396	3,906	170	664	
	7,498	963	170	164	
	52,182	7,382	85	627	
	8,588	110	170	19	
	10,558	-	-	100	
	56,912	-	-	100	
	2,107	160	340	54	
	9,696	-	-	150	

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- : 2001
- : 7,432km<sup>2</sup>
- : 872,800
- ( :202,800 , ( ):170,000 , :500,000 )
- : 100%

o 1 1

- : 600 ( )
- : 100 ( )
- : 30 ( )
- : 90 ( )

o

- : 202,800 × 600 = 121,680m<sup>3</sup>/
- : 126,800 × 100 = 12,680m<sup>3</sup>/
- : 500,000 × 30 = 15,000m<sup>3</sup>/
- : 43,200 × 90 = 3,888m<sup>3</sup>/

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$$153,248\text{m}^3/$$

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(30%),

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340

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가

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30

3,510

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$$\begin{aligned} \text{가} & : 138 \\ \text{가} & : 3,510\text{m}^3 / 101 \times 8/24 \times 86,000 \quad (10,000 / ) \end{aligned}$$

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$$3,510\text{m}^3 / ( \text{가} ) \times 0.8 \times 0.9 \times 1.15 \times 910,000 \quad (50,000 / ) \quad 2,645$$

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$$\begin{aligned} & 53 \quad 32 \\ & ( , ) \\ & \text{가} \quad \text{가} \quad \text{가} \end{aligned}$$

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$$\begin{aligned} & \text{가} \quad \text{가} \quad \text{가} \quad \text{가} \end{aligned}$$

5)

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$$\begin{aligned} & , , \text{가} \\ & , \\ & \text{가} \end{aligned}$$

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$$\begin{aligned} & \text{가} \quad . \\ & \text{가} \end{aligned}$$

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$$\begin{aligned} & \text{가} \\ & \text{가} , \end{aligned}$$

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$$\begin{aligned} 1 & = 1 \times ( + ) \\ 1 & = 1 \times \end{aligned}$$

$$\begin{aligned} - \text{가} & = \text{가} \quad 1 \quad \div \\ - & = 1 \quad \div \end{aligned}$$

$$- = 1 \quad \div$$

	(m <sup>3</sup> / )				
	( )		( )		
	1,439	75.7	461	24.3	1,900
	5,483	92.6	440	7.4	5,923
	121,680	79.4	31,600	20.6	153,280
	3,756	94.5	218	5.5	3,974
	5,249	87.5	751	12.5	6,000
	8,034	81.6	1,806	18.4	9,840
	2,642	91.5	246	8.5	2,888
1,2	9,948	84.2	1,872	15.8	11,820
	5,244	91.7	476	8.3	5,720
	15,988	89.8	1,807	10.2	17,795
	2,638	56.8	2,006	43.2	4,644
	4,806	94.7	269	5.3	5,075
	23,503	94.6	1,351	5.4	24,854
	6,391	69.7	2,772	30.3	9,163
	9,528	88.5	1,228	11.5	10,765
	4,772	90.4	509	9.6	5,281
	18,896	90.0	1,237	10.0	21,023
	5,313	45.1	6,459	54.9	11,772
	8,943	96.3	346	3.7	9,289
	12,120	74.5	4,152	25.5	16,272
	3,383	95.0	177	5.0	3,560
	3,728	90.1	409	9.9	4,137
	10,039	86.5	1,561	13.5	11,600
	64,420	92.0	5,580	8.0	70,000
	5,209	78.9	1,391	21.1	6,600
	9,925	89.3	1,190	10.7	11,115
1,2	48,965	67.1	23,986	32.9	72,951
	4,441	82.7	928	17.3	5,369
	29,847	76.8	9,004	23.2	38,851
	2,285	93.2	167	6.8	2,452
	458,615	81.3	105,298	18.7	563,913
	15,287	81.3	3,510	18.7	18,797