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“LEARNING THROUGH THE ARTS”.

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ABSTRACT

In modern times more than ever, the encounter with art in the context of an educational design makes it necessary for children to experience experiential-empirical learning for the arts and the arts in order to give them the opportunity to experiment and research and to interconnect many cognitive objects through a holistic approach. In this endeavor, the role of the teacher emerges as important, since he is the one who has the ultimate responsibility of cultivating fertile ground for the child’s encounter with the art phenomenon. The main objective of the present study was to investigate the views and attitudes of pre-school teachers for the use and contribution of the arts in modern Preschool Education environments and the opportunities they offer for the achievement of learning goals. The methodological design of the research was conducted according to the standards of quantitative research. An anonymous structured questionnaire was used as the basic research tool for conducting the survey. The participants were 151 educators working in pre-school, public kindergarten and nursery schools in various municipalities in Greece. The results of the research have shown that the educated teachers consider the contribution of the arts to the educational process very important and they express a positive attitude and a high degree of satisfaction from the achievement of their educational goals and the academic achievements of the infants. The main factors hampering the integration of the arts are the negative attitude and the culture of the pedagogues, while the positive attitude and the knowledge of them are factors that favor it. The practices they use in the dialogue with the arts are quite limited. They state that they have a modest theoretical background for the teaching of the arts and consider it necessary to train them in the teaching of art.

Key words: Learning through arts, pedagogues Preschool education, educational process.

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4.

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5.

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1 :

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3 :

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4 :

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μ

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5 :

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μ

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μ , μμ ,
 μ online μ μ ,
 90% μ 60%
 , , μ μ

3.4. μ μ μ

μ μ μ μ
 μ μ μ ,
 μ μ μ ,
 μ μ μ
 μ (Creswell, 2011, Robson, 2010). μ

μ μ , μ μ μ
 μ , μ μ μ μ
 μ . μ / μ , μ μ μ
 μ μ μ μ

60% (99 μ) μ .
 , μ μ μ , μ μ
 μ μ μ μ μ 60
 μ μ μ μ . μ

μ μ μ μ μ μ
 μ μ μ μ μ μ μ μ
 μ μ μ μ μ μ μ μ
 μ μ μ μ μ μ μ μ

, "Learning Through The Arts".

	1	μ	Cronbach
	0,89	11 μ	μ
2.			

Cronbach's Alpha	N
,77	26
	2
μ	μ
26 μ	μ
	Cronbach
	0,77
	μ

Cronbach's Alpha	N
,85	10
	3
μ	μ
μ	μ
	Cronbach
	μ 0,85
	μ
	μ

Cronbach's Alpha	N
,83	13
	4
μ	μ
μ	μ
	Cronbach
	0,83
	μ

5.	
Cronbach's Alpha	<i>N</i>
,85	71

Cronbach's Alpha = 0,85. N = 71.

(Creswell, 2011)

3.7.

online Excel, GNU PSPP 1.0.1.-g818227 PSPP.

2

μ μ

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μ

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μ

μ

μ

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μ

μ

μ

ne way nova.

μ

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μ

μ

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μ

μ

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μ

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μ

(

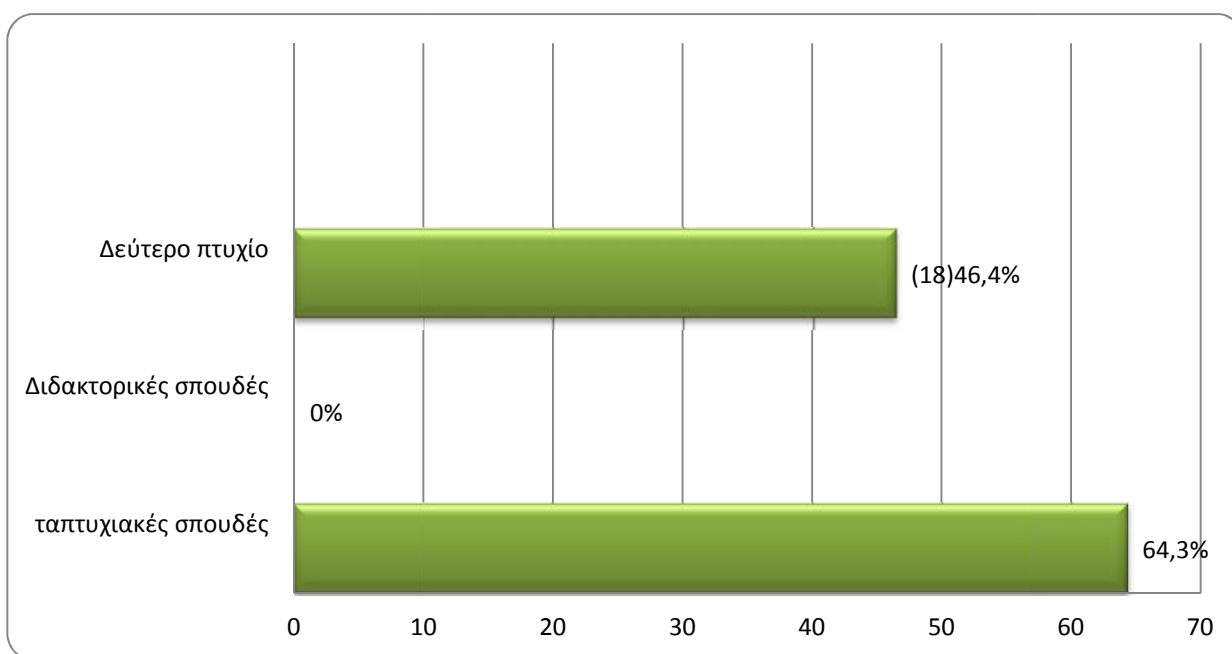
,

μ).

μ

$p < 0.05$.

μ 7, μ μ 33-43 44-54
 μ μ 62,3% μ 44-54. μ
 μ μ μ μ μ
 μ μ μ μ μ
 151 μ , 18 μ 64,3%
 μ , 13 μ 46,4% ,
 μ 1(8
 μ).



μ 1. μ .

9. μ :

μ	μ	μ	μ
<5	1,00	8	5,3
6-12	2,00	13	8,6
11-15	3,00	25	16,5
16-20	4,00	35	23,2
21-25	5,00	39	25,8
26-30	6,00	17	11,3
30&	7,00	14	9,3
		151	100,0

, "Learning Through The Arts".

21-25 , 25,8%, 23,2% 16-20 .
 μ 11-15 16,5%, μ <5 , 6-12
 30& , μ .

10. μ	:	μ	
μ	1,00	75	49,7
μ	2,00	60	39,7
μ	3,00	16	10,6
		151	100,0

10 μ μ

75 μ 49,7% , 60 μ 39,7%

μ 16 μ 10,6% μ .

μ μ μ μ ,

μ μ 50,3%

49,7%.

μ ,

μ μ μ μ

μ μ μ μ

μ μ μ μ μ

2(11,12,13,14,15 μ).

μ 99,3%

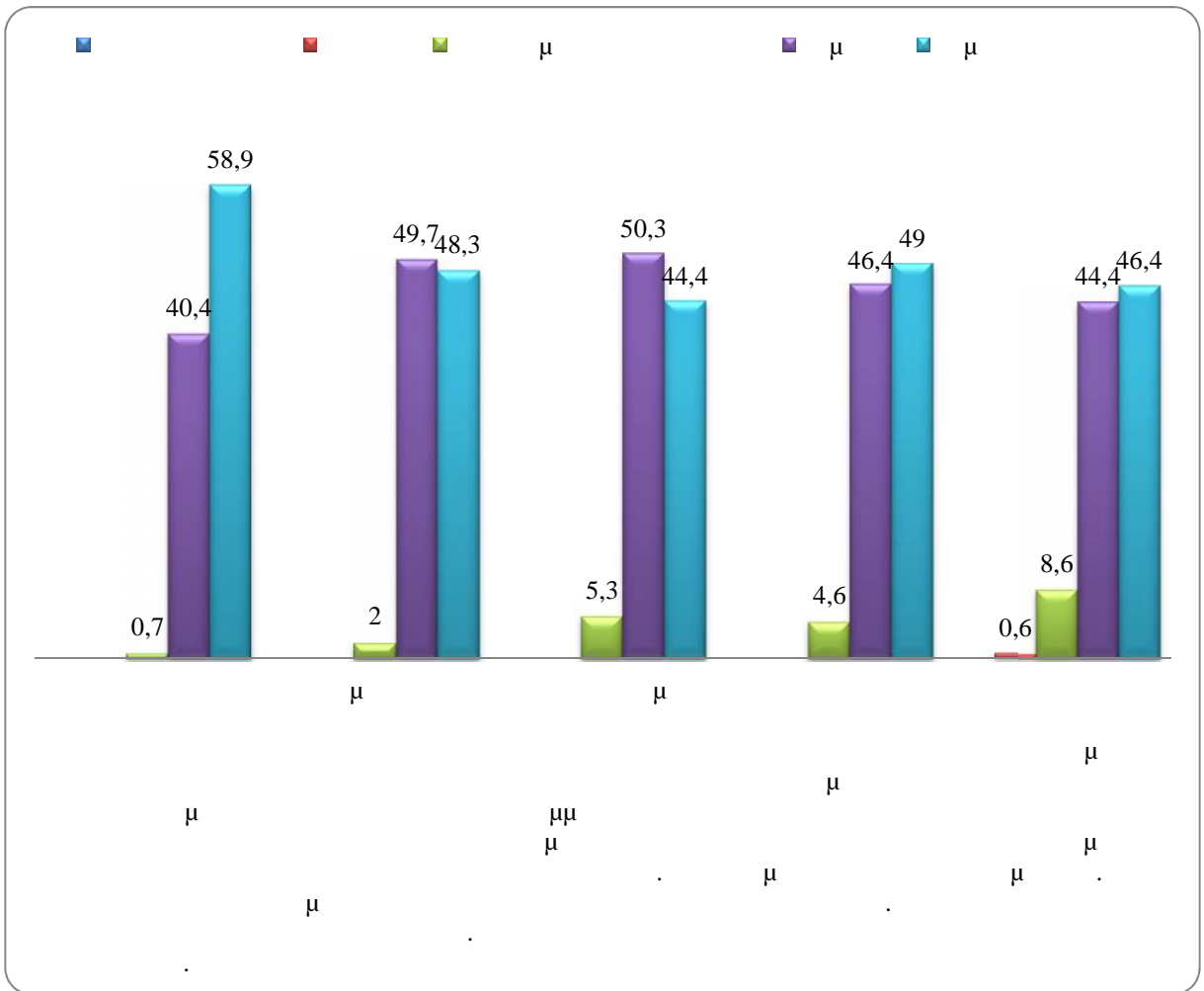
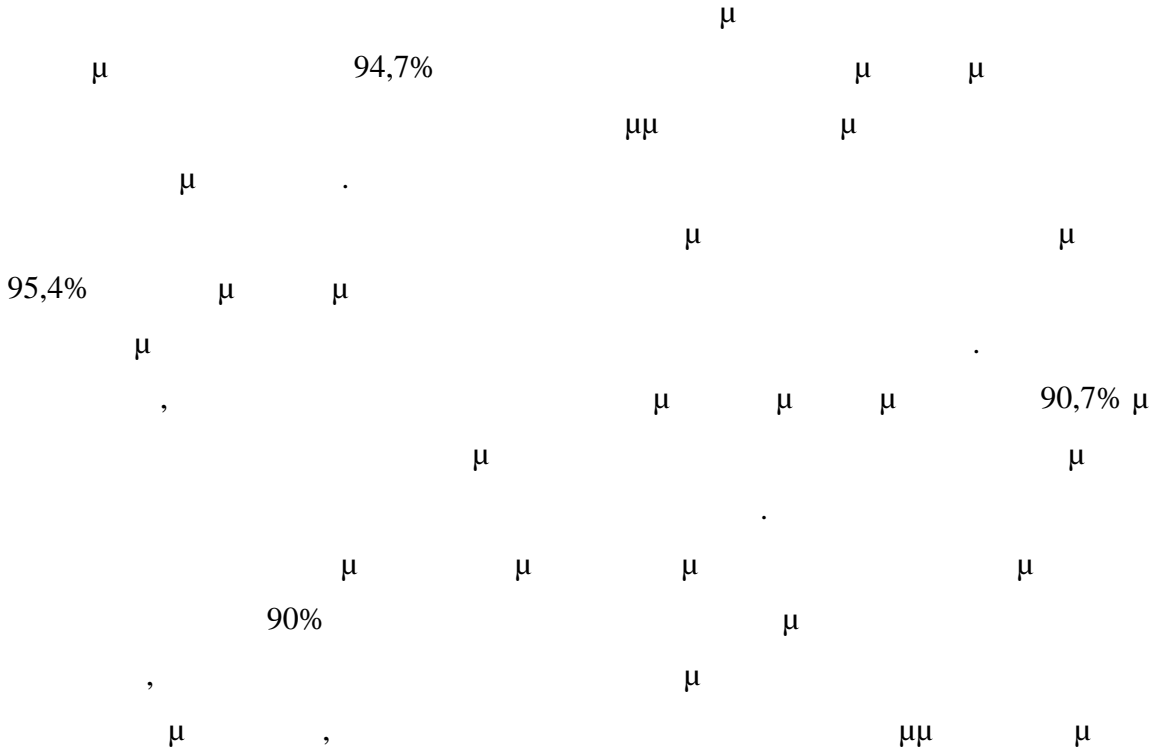
, μ μ , μ

μ μ μ μ

μ .

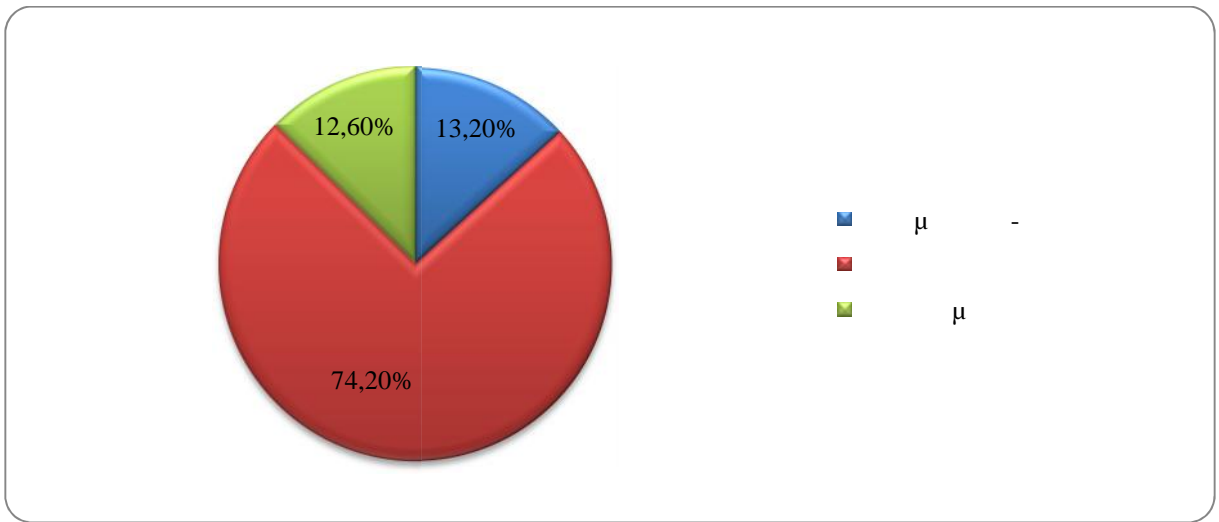
98% μ

μ



μ 2.

μ , μ 74,2%. μ 13,2%, μ μ 12,6% μ μ (μ 3, 16 μ).



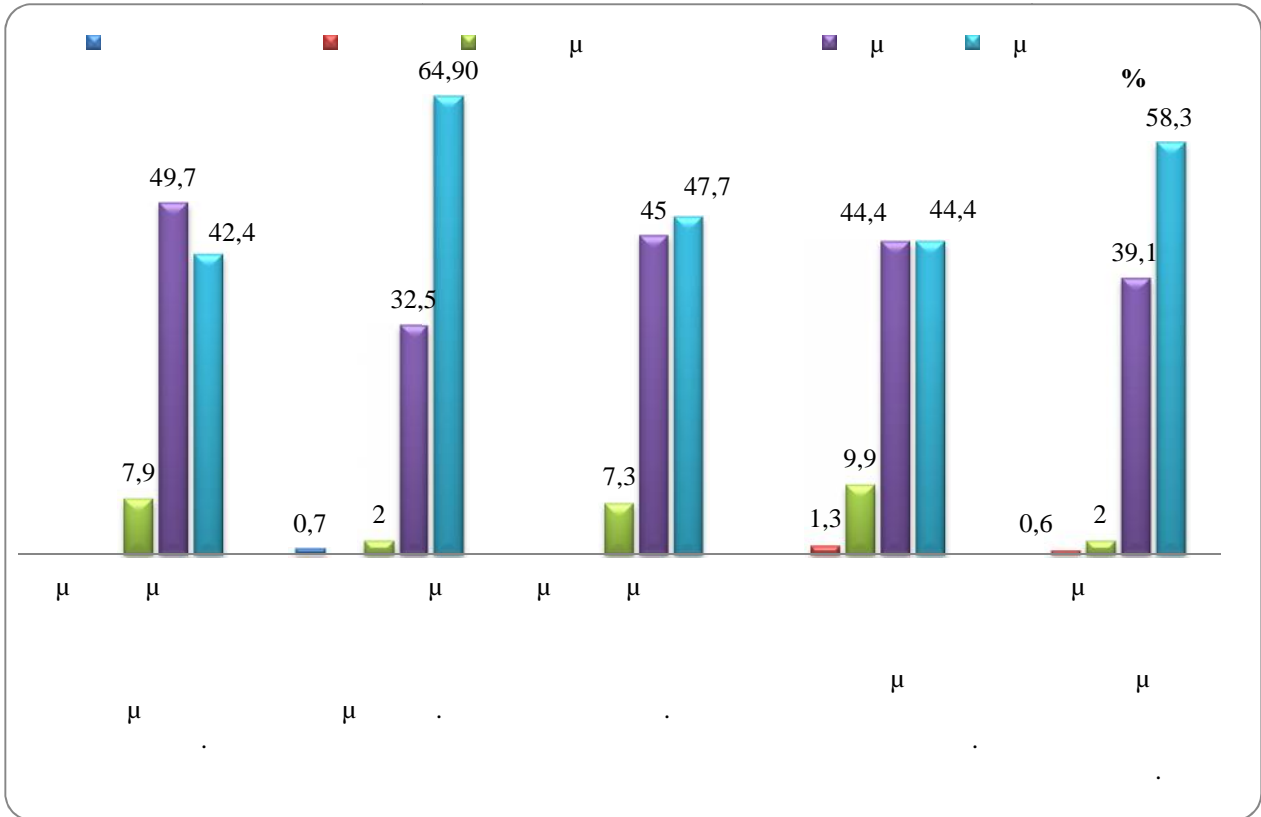
μ 3.

μ μ , μ 92,1%, μ μ (μ 4, 17 μ), μ μ 97,3% μ (μ 4, 18 μ). μ μ , μ μ μ μ . , , μ μ μ 4(19 μ)μ 92,7%. μ μ μ μ 88,8%

„Learning Through The Arts”.

μ μ « μ » « μ »
 1,3% (μ 4, 20
 μ). μ μ

μ 97,4% (μ 4, 21 μ).



μ 4.

μ

μ

μ

μ

μ

μ

1

5

μ

μ

94,7%

67,5%

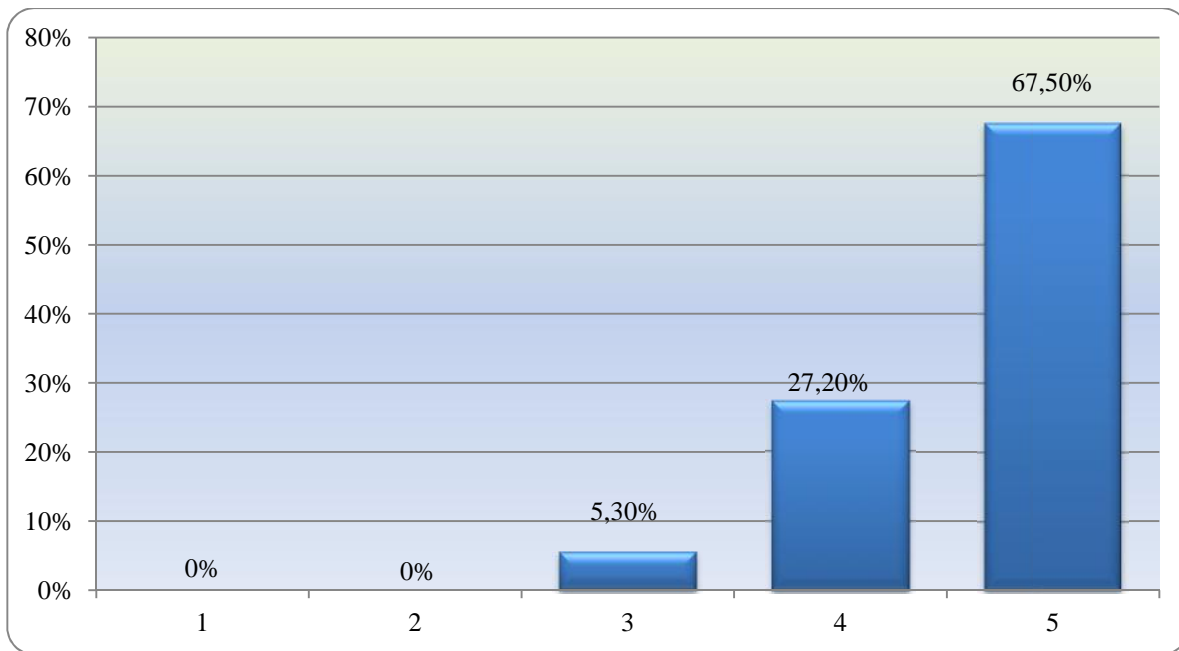
μ 5

(μ 5,

22

μ).

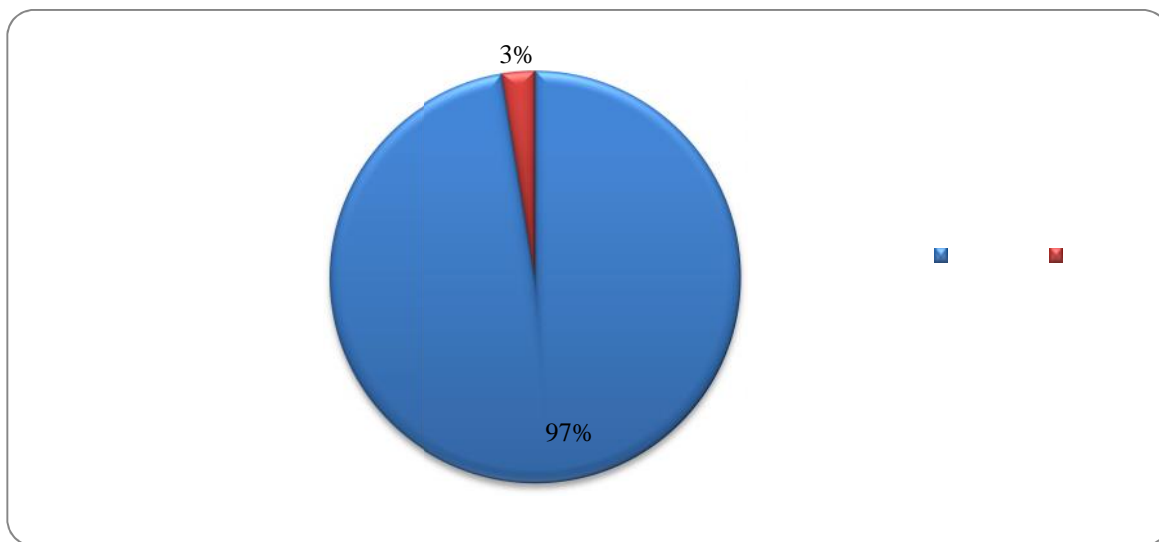
„Learning Through The Arts”.



μ 5.

μ

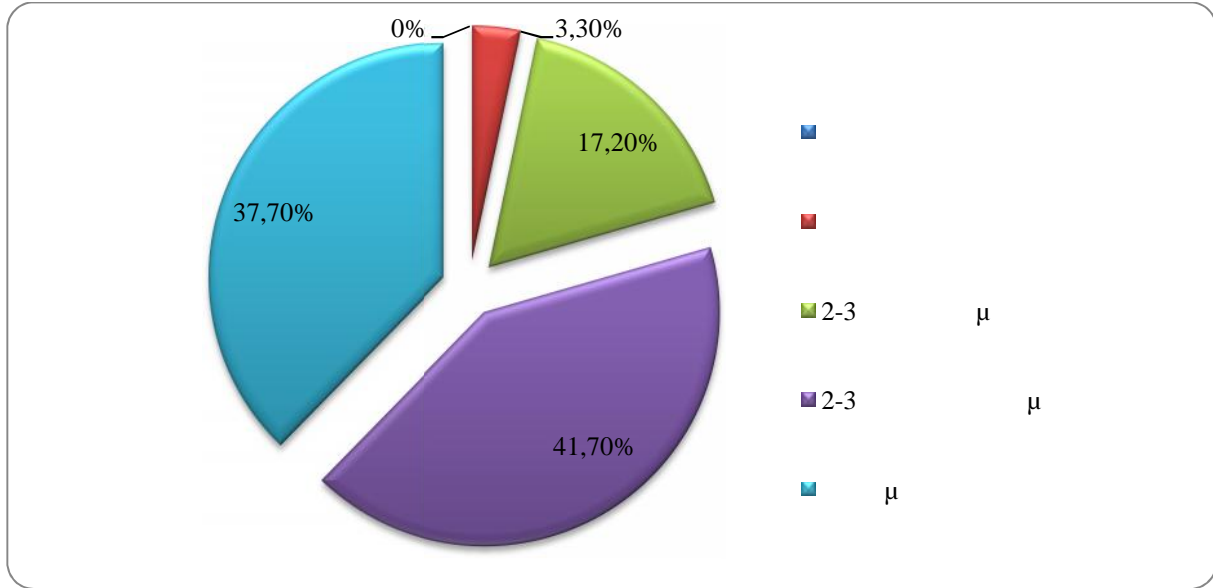
97% (μ 6, 23 μ).



μ 6.

μ μ 41,7% μ μ 37,7%. μ 2-3 «2-3 μ » μ μ

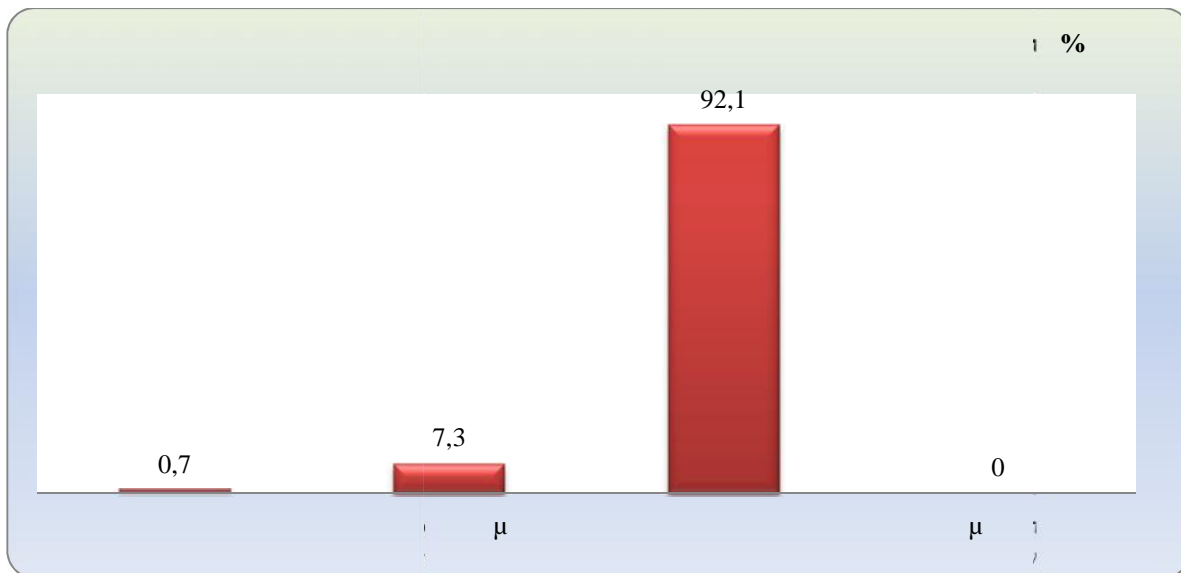
41,7%,
μ (μ 7, 24 μ).



μ 7.

μ 8, (μ 225,26,27,28,29 μ), μ

92,1%, μ μ 73,5%, μ 40,4%,
58,3% μ μ 61,6%. μ
36,4%, μ 29,8 27,2% μ
μ 2% ,
1,3% 0,6% ..



μ 10.

μ

32.

μ

μ			
μ	μ	μ	μ
5,3	25,2	45	24,5
-	41,1	35,1	19,2
μ	35,1	28,5	30,5
	59,6	28,5	10,6
	45,7	34,4	16,6
μ	-	19,9	23,2
		39,7	17,2
		2	13,2
		26,5	58,3
		4	10,6
		29,1	56,3
		2	6,6
		28,5	62,9

μ

μ

μ ,

32,

μ

μ

μ

μ

μ

45%,

«

»

«

»

μ

μ

μ

25,2%

24,5%

.

μ

5,3%

μ

μ

.

-

,

,

μ

41,1%

μ

,

μ

31,1%

μ

,

19,2% μ μ 4,6% μ .

μ μ « μ » μ μ

μ « », « », « » μ 35,1%, 28,5%

30,5% , μ μ 5,9%

μ . μ .

« » μ

59,6% μ 28,5% μ .

« » « » μ 10,6% 1,3%

μ μ .

μ 45,7% μ , 34,4%

μ . , μ 16,6% μ 3,3%

.

μ μ μ

μ , μ 39,7%

17,2%. 19,9% μ 23,2% μ .

μ ,

μ μ

58,3% μ . 26,5%

μ μ μ

(2% 13,2%).

μ

56,3% μ . 29,1 μ ,

μ (4% 10,6%).

, μ μ , μ

62,9% μ

μ 2% μ .

μ

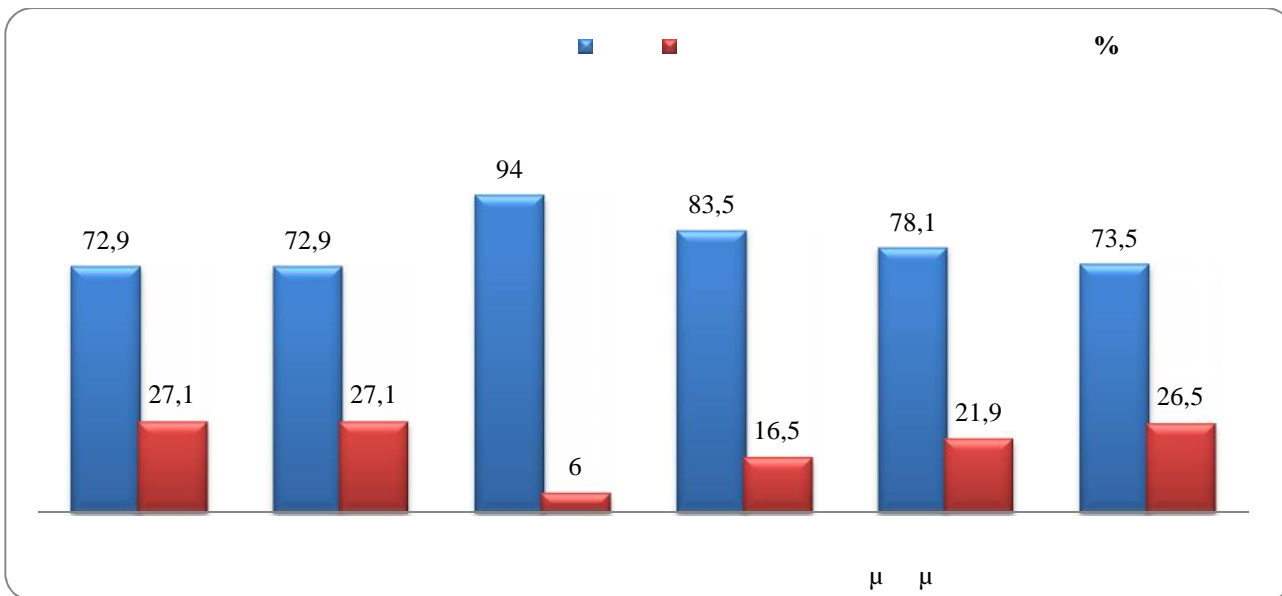
, μ 72,9%

μ , 94% , 83,5%

, 78,1% μ μ 73,5%

(μ 11, 33,34,35,36,37,38,39) .





μ 11.

μ

μ

μ

40.

	0	0	34,5	65,5
	0	2	37,8	60,2
μ	0	0,6	23,2	76,2
μ	0	0,7	22,5	76,8
μ	0,7	3,3	39,7	56,3
μ ,	0	0	11,3	88,7
	0	1,3	23,8	74,9
	0	0,7	31,1	68,2

, μ μ (40),

μ

« »,

μ

μ

. μ , μ 88,7%

76,8%

μ

,

μ

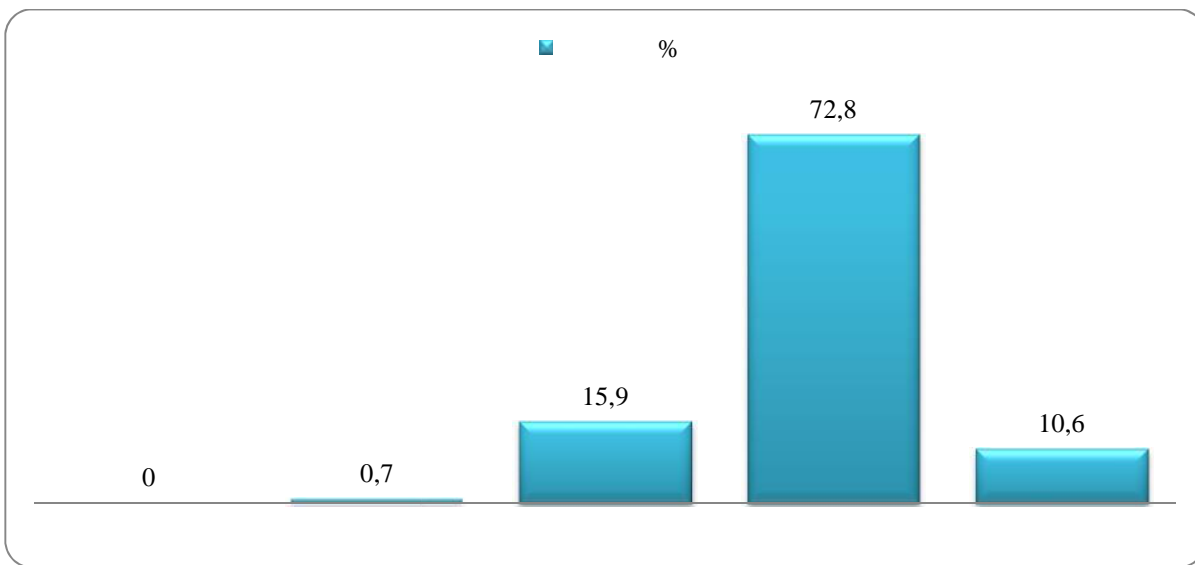
76,2%

74,8%.

μ

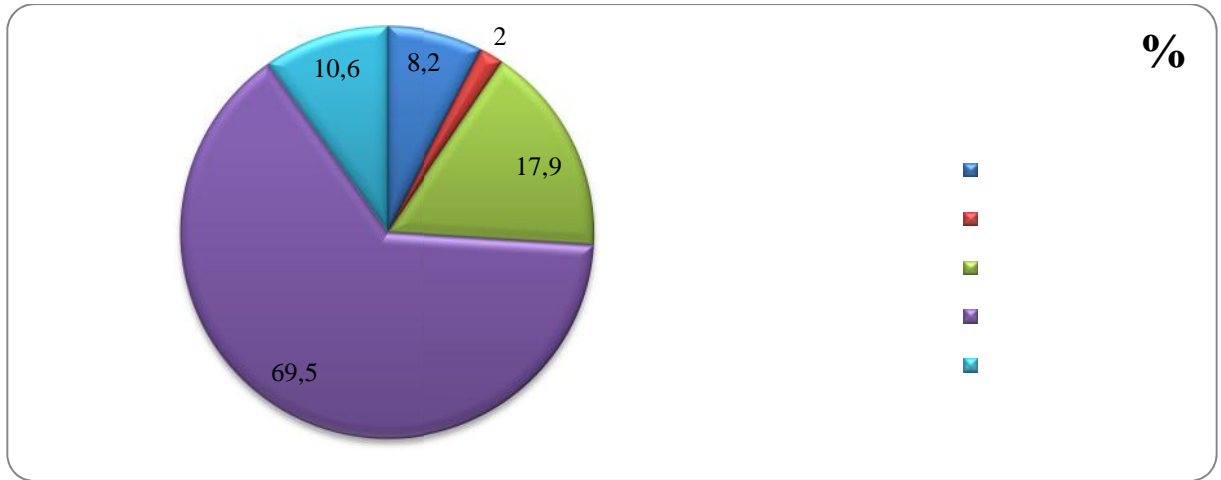
,"Learning Through The Arts".

65,5%, 68,2%, 60,3% 56,3%.
 12(41 (),
 72,8% 15,9%
 10,6%

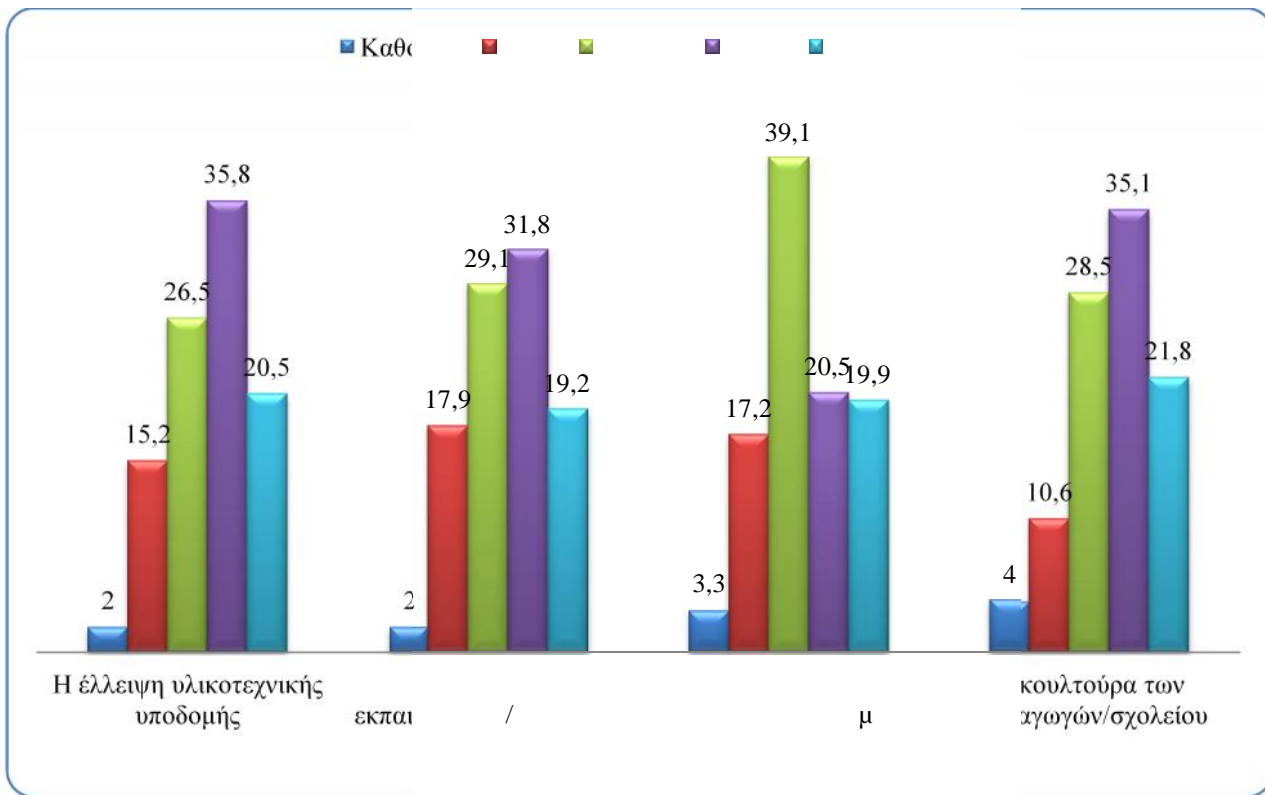


μ 12. μ μ
 69,5%(μ 12, 42
 8,2% μ μ μ μ

„Learning Through The Arts“.

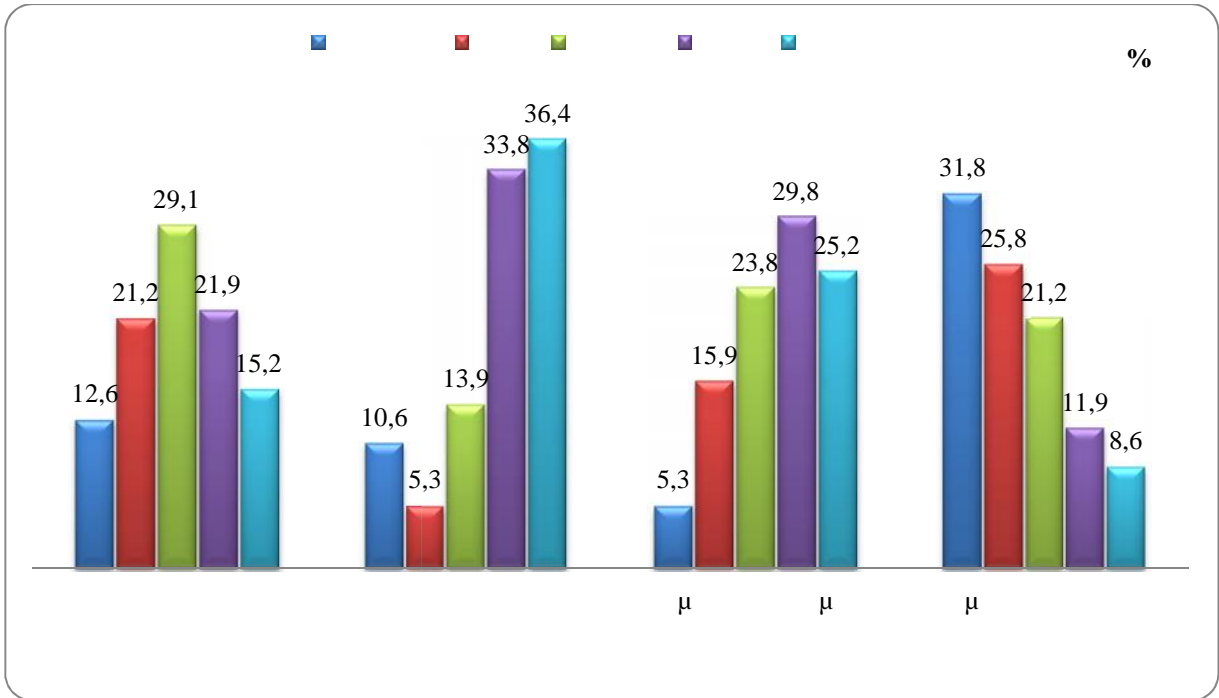


μ 13. μ
μ . μ μ μ μ
μ μ
μ 14, (μ
43,44,45,46 μ), μ
μ 56,3% μ
μ 51%. μ
μ 40,4% μ , μ
μ 39,1%. μ
μ 56,9% μ



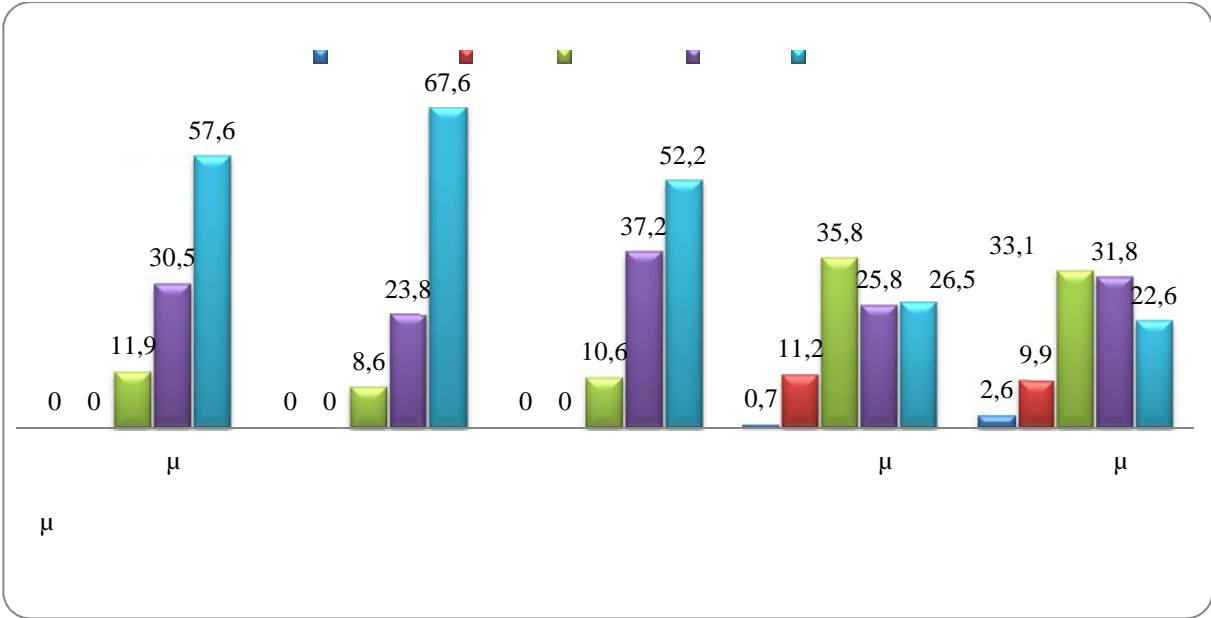
μ 14.

μ 15 (47 μ),
 μ μ μ μ
 μ 29,1%. μ
 μ . μ
 μ , μ .
 μ μ 70,2%
 μ
 (μ 15, 48 μ).
 μ μ , μ
 55%, μ (μ 15, 49 μ)
 μ μ μ
 20,5%(11,9+8,6) « » « », μ
 μ 31,8%(μ 15, 50
 μ).
 , ,
 , μ μ μ
 μ μ μ
 μ μ μ



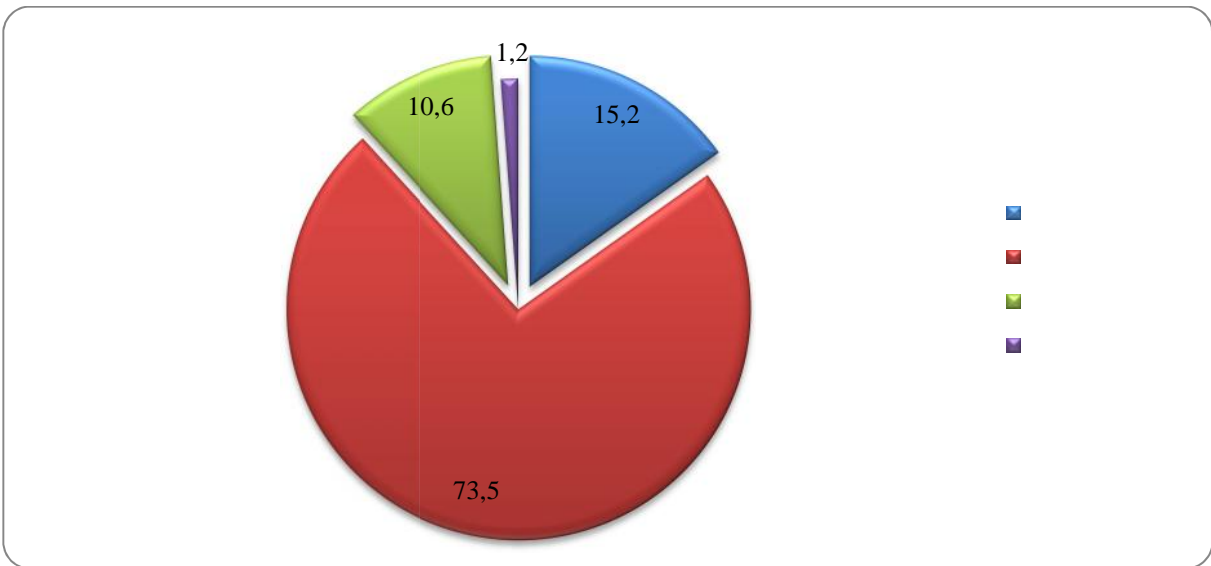
μ 15.

16
 μ , 88,1%
 μ μ
 (μ 16, 51 μ), 91,4%
 μ (μ 16,
 52 μ), 89,6%
 μ μ (μ 16, 53
 μ). μ μ 52,3%
 μ μ (μ 16, 54
 μ) 54,4% μ
 (μ 16,
 55 μ).



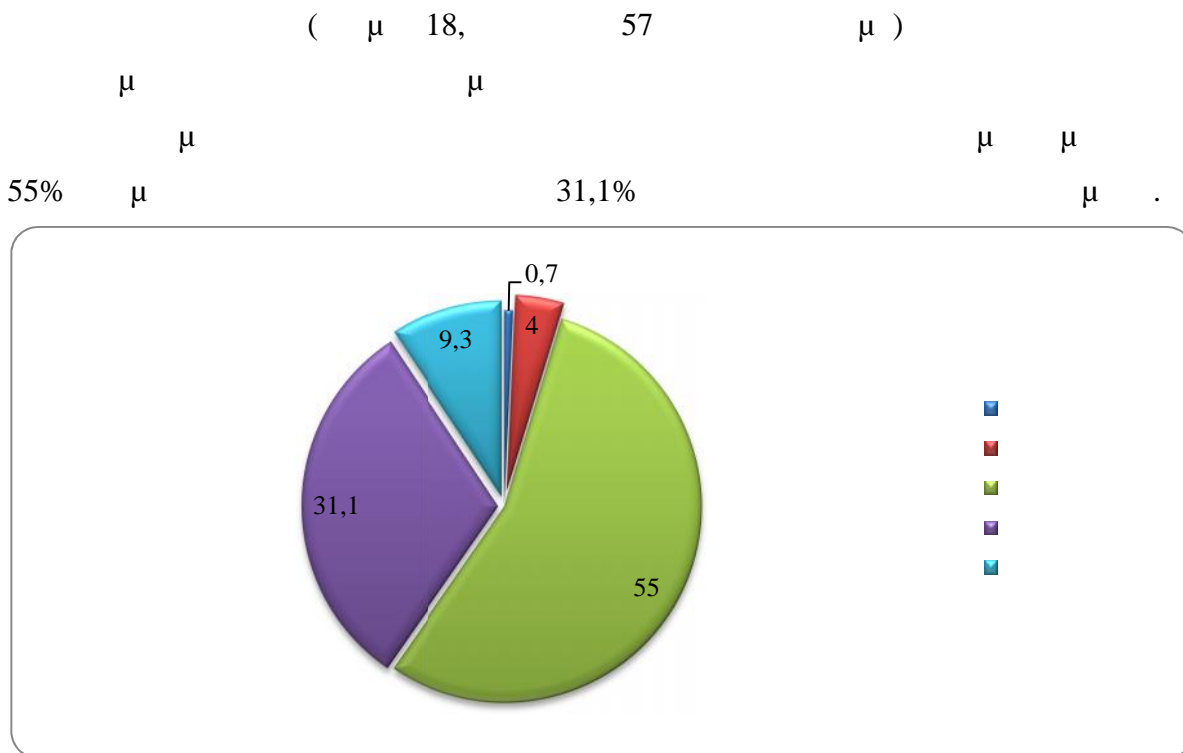
μ 16.

μ 15,2%
 73,5%
 « » « »(10,6% 1,2%) (μ 17, 56 μ).



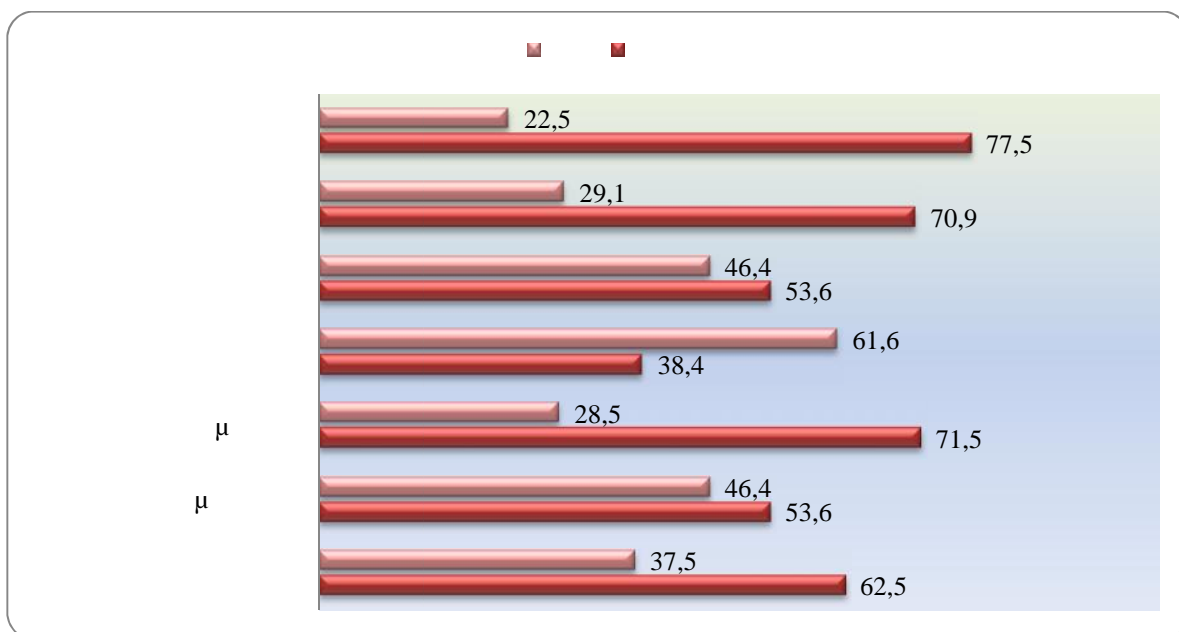
μ 17.

„Learning Through The Arts”.

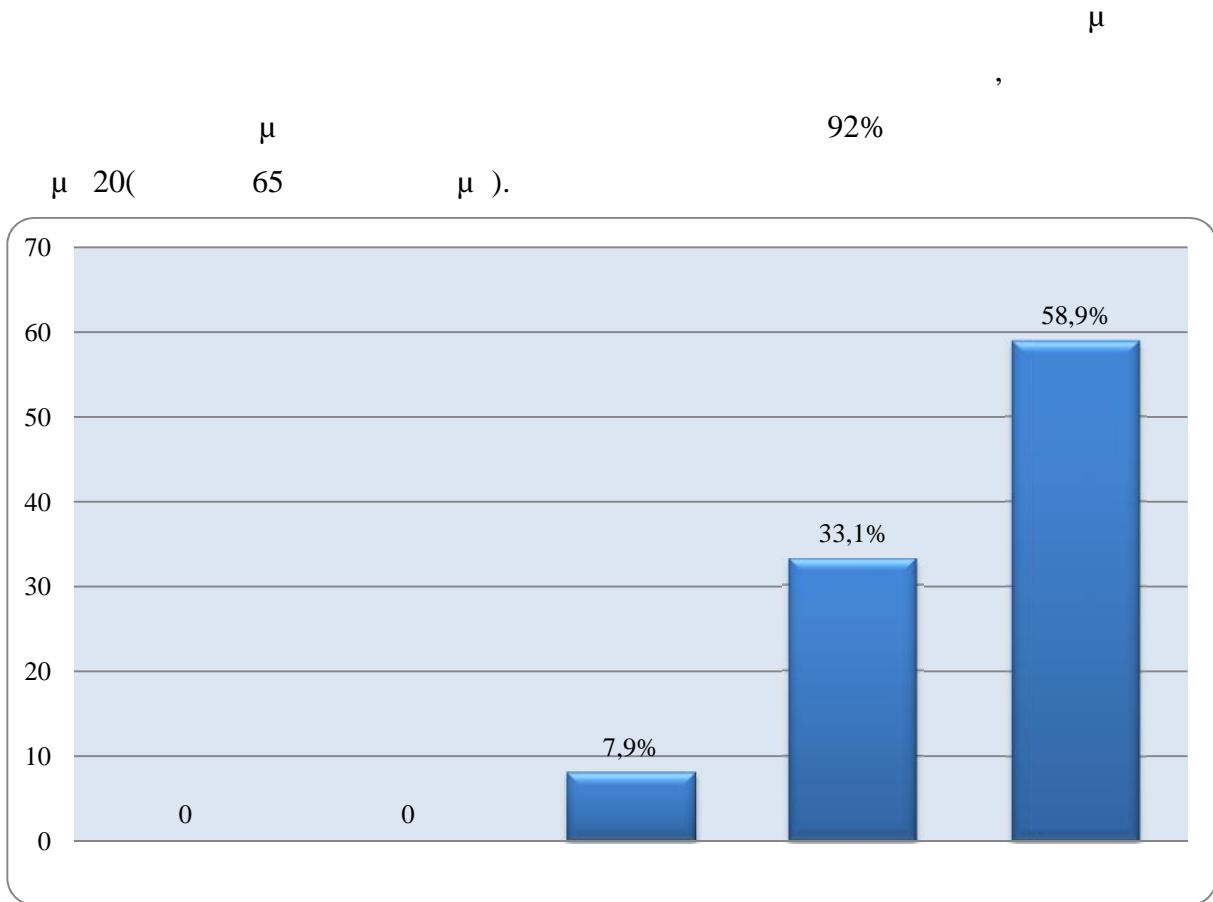


μ 18. μ

, μ 18 (77,5%), μ (71,5%) (70,9%) (μ 19, 58,59,60,61,62,63,64 μ).



μ 19.

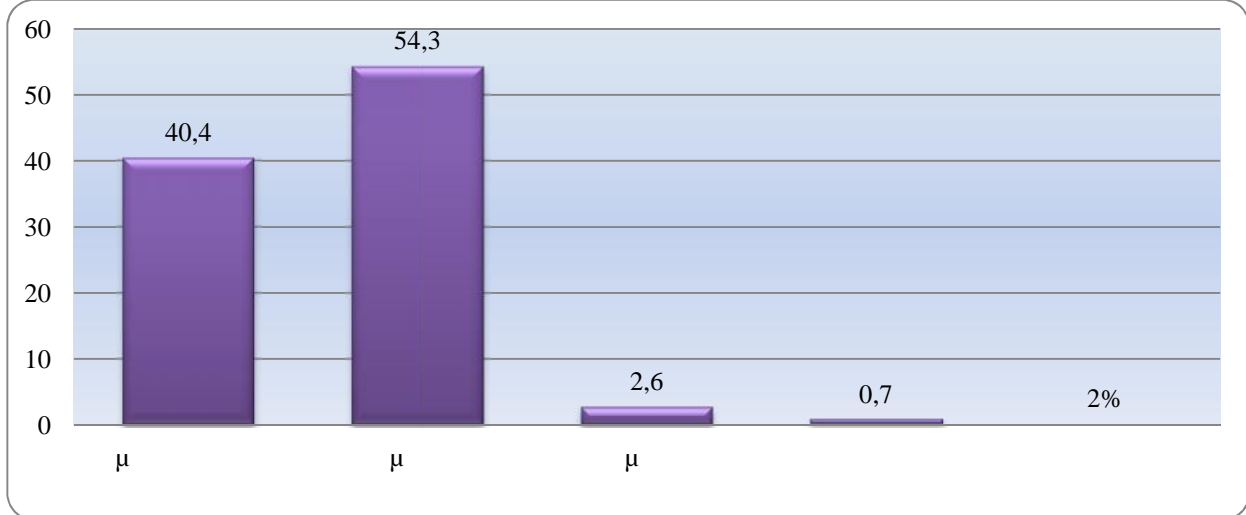


μ 20. μ μ μ .

μ , , ,

μ μ μ ,

μ μ 94,7% μ 21(66 μ).



μ 21. μ .

5

μ μ μ μ 2. μ μ μ μ 0 μ μ μ 1 .

5.1. μ μ

67. μ .

	μ	μ	μ. (2- /)
<i>Pearson</i> -	43,86	6	,000
	39,37	6	,000
μμ - - μμ	35,51	1	,000
<i>N</i>	151		

μ μ « »
« μ » μ 2 . μ μ μ
67, μ μ μ
= 43,86 p<0.000 <0,005. 37,75%
μ μ .

5.2.

5.2.1.

68.

	μ		$\mu . . \mu . (2- /)$
Pearson -	23,07	2	,000
	22,92	2	,000
$\mu\mu - - \mu\mu$	22,90	1	,000
N	151		

68

2 23,07 μ μ μ μ $p=0.000 <0.005.$ μ
 μ μ μ μ μ

5.2.2.

69.

	μ		$\mu . . \mu . (2- /)$
Pearson -	24,68	4	,000
	25,78	4	,000
$\mu\mu - - \mu\mu$	22,64	1	,000
N	151		

69

$p=0.000 <0.005$ μ 2 24,68 μ μ
 μ μ μ μ μ

5.2.3.

μ

70.

μ

	μ		$\mu \dots \mu (2- /)$
Pearson -	26,79	4	,000
	14,09	4	,007
$\mu\mu - - \mu\mu$	9,80	1	,002
N	151		

70

μ

μ

μ

2

μ 26,79

μ

μ

$p=0,000 < 0,05.$

μ

,

μ

5.2.4.

μ

71.

μ

	μ		$\mu \dots \mu (2- /)$
Pearson -	30,71	4	,000
	27,52	4	,000
$\mu\mu - - \mu\mu$	15,25	1	,000
N	151		

2

(71)

μ

μ

.

μ

μ

,

$2=30,71$

$p=0.000$

$< 0,05.$

,

μ

μ

μ

.



5.2.5.

μ

72.

μ

	μ		$\mu . . \mu . (2- /)$
Pearson -	28,40	6	,000
	31,11	6	,000
$\mu\mu - - \mu\mu$	24,94	1	,000
N	151		

72

μ

μ

2

$2=28,40$

μ

μ

μ

$p=0,000 < 0,05.$

5.2.6.

μ

,

73.

μ

,

	μ		$\mu . . \mu . (2- /)$
Pearson -	26,16	2	,000
	22,55	2	,000
$\mu\mu - - \mu\mu$	25,91	1	,000
N	151		

2

μ

μ

,

$2=26,16$

μ

μ

<0,05. , 73 2 p=0.000
 μ μ μ .

5.2.7.

74.

	μ	μ	μ . . μ . (2- /)
Pearson -	16,50	4	,002
	14,41	4	,006
$\mu\mu$ - - $\mu\mu$	12,35	1	,000
N	151		

74

μ μ . μ 2 2=16,50
 μ μ p=0.002 <0.05. μ , μ μ
 μ .

5.2.8.

75.

	μ	μ	μ . . μ . (2- /)
Pearson -	22,47	4	,000
	21,70	4	,000
$\mu\mu$ - - $\mu\mu$	19,95	1	,000
N	151		

75

μ μ

μ 2 2=22,47 μ



μ μ μ μ $p=0,000 <0,05$.

5.3.

5.3.1.

76. μ

	μ		μ . . μ . (2- /)
Pearson -	56,22	6	,000
	50,48	6	,000
$\mu\mu$ - - $\mu\mu$	36,26	1	,000
N	151		

μ μ 76 μ μ

μ « μ » « μ »

μ μ μ μ μ

μ μ 2 μ 2=56,22 μ

μ 2 $p=0.000 <0.05$. , μ

μ

5.3.2.

77. μ μ

	μ		μ . . μ . (2- /)
Pearson -	61,01	6	,000
	55,04	6	,000
$\mu\mu$ - - $\mu\mu$	38,78	1	,000
N	151		



χ^2 μ μ μ μ ,
 69,54% μ
 « » μ μ 77
 χ^2 $p=0.000$ $<0,05$ $\chi^2=61,01$,
 μ μ μ .

5.4. μ

5.4.1. μ

78. μ
 - .

	μ		$\mu \cdot \mu \cdot \mu \cdot (2- /)$
Pearson -	13,52	3	,004
	13,13	3	,004
$\mu\mu - - \mu\mu$	11,58	1	,001
N	151		

μ μ «
 » « » μ 2.
 78, μ μ μ
 $\chi^2=13,52$ $p= 0.004 < 0,005$.



5.4.2. μ

79. μ

	μ		$\mu . . \mu . (2- /)$
<i>Pearson -</i>	19,35	6	,004
	15,40	6	,017
$\mu\mu - - \mu\mu$	13,70	1	,000
<i>N</i>	151		

» « μ μ « 2.
 79, μ μ
 μ $2=19,35$ $p= 0.004 < 0,005.$ μ
 μ μ

5.4.3. μ

80. μ

	μ		$\mu . . \mu . (2- /)$
<i>Pearson -</i>	41,33	6	,000
	18,19	6	,006
$\mu\mu - - \mu\mu$	14,72	1	,000
<i>N</i>	151		

» « μ μ «
 2. 80, μ μ
 μ μ $2=41,33$ $p= 0.000 < 0,005.$ μ

5.4.4. μ

μ .

81. μ

μ .

	μ		$\mu . . \mu. (2- /)$
Pearson -	30,30	9	,000
	30,19	9	,000
$\mu\mu - - \mu\mu$	17,65	1	,000
N	151		

μ μ «

» « μ » μ

2. 81, μ μ

μ 2=30,30 p= 0.000< 0,005.

5.4.5. μ

μ , .

82. μ

μ , .

	μ		$\mu . . \mu. (2- /)$
Pearson -	23,62	3	,000
	19,55	3	,000
$\mu\mu - - \mu\mu$	20,50	1	,000
N	151		

μ μ «

» « μ , , » μ

2. 82, μ

μ μ μ 2=23,62 p= 0.000< 0,005.



5.5. μ μ μ

5.5.1. μ μ μ μ

83. μ μ

	μ	μ	μ . . μ . (2- /)
Pearson -	61,24	9	,000
	55,13	9	,000
$\mu\mu$ - - $\mu\mu$	38,56	1	,000
N	151		

μ μ « »
 » « μ »
 μ 2. 83,
 μ μ μ μ 2=61,24 p=
 0.000 <0,005. μ μ

5.5.2. μ μ μ μ

84. μ μ

	μ	μ	μ . . μ . (2- /)
Pearson -	74,01	9	,000
	64,11	9	,000
$\mu\mu$ - - $\mu\mu$	39,42	1	,000
N	151		

μ μ « »
 » « μ μ μ »
 μ 2. 84,

0.000 < 0,005.

5.6.

55 .

151 μ 11-55 ,

: 1) 22-32 , 2) 33-43 , 3) 44-54

μ

μ μ

μ μ

(one way nova).

μ μ

μ μ

p < 0.05.

85.

ANOVA						
					<i>F</i>	<i>p</i> . μ.
μ	μ	,92	3	,31	1,20	,313
	μ	37,79	147	,26		
		38,72	150			
μ	μ	2,62	3	,87	3,13	,027
	μ	40,93	147	,28		
		43,55	150			
μ	μ	4,47	3	1,49	4,61	,004
	μ	47,48	147	,32		

		51,95	150			
	μ	2,80	3	,93	2,84	,040
	μ	48,47	147	,33		
		51,27	150			
	μ	7,51	3	2,50	6,19	,001
	μ	59,45	147	,40		
		66,97	150			

85

μ , μ μ .

μ μ μ

μ .

μ μ , μ μ μ

μ $F(3,147)=3,13$ μ $p=0,027<0,05,$ μ μ μ

0,05 μ μ μ μ μ μ

μ .

μ $\mu\mu$ μ , μ μ

$F(3,147)=4,61$ μ $p=0,004<0,05.$ μ μ μ

0,004 μ μ μ μ μ

μ .

μ μ μ μ μ μ μ μ

0,05. μ $F(3,147)=2,84$ μ $p=0,040<0,05.$

μ μ μ , μ μ

5.8.

μ μ μ
 μ .
 μ
 μ μ μ μ
 , μ μ μ μ (one way
 anova). μ μ
 . μ p<0.05.

87.

μ μ μ

ANOVA						
					<i>F</i>	<i>p</i> . μ.
μ μ .	μ	4,49	6	,75	2,18	,048
	μ	49,45	144	,34		
		53,95	150			
μ μ .	μ	5,23	6	,87	2,36	,033
	μ	53,12	144	,37		
		58,36	150			
μ .	μ	16,49	6	2,75	6,79	,000
	μ	58,25	144	,40		
		74,74	1			

(One way Anova)

87 μ μ μ μ
 μ μ , μ
 μ μ .



μ μ μ μ $F(3,147)=4,72$ μ
 $p=0,004<0,05$.

μ , μ
 μ $F(3,147)=3,50$ μ $p=0,017<0,05$.

5.9.

μ μ μ

•
 μ
 μ , μ
 μ μ μ (one way nova).
 μ μ μ .
 μ $p<0.05$.

88.

μ μ

ANOVA						
					F	μ
μ μ .	μ	2,04	1	2,04	5,85	,017
	μ	51,91	149	,35		
		53,95	150			

μ 88,

μ μ (one way nova) μ

μ μ

μ μ μ μ μ $F(6,144)=2,18$ μ
 $p=0,048<0,05$.

μ μ

μ μ ,
 μ (one way nova)
 μ . $F(6,144)=2,36 \mu$ $p=0,033<0,05$.
 μ
 μ , μ
 μ μ μ μ μ μ
 $F(6,144)=6,79 \mu$ $p=0,000<0,05$.

, Parks and Rose, (1997) Podlozny, (2000) Dhanapal,(2014)

μ μ μ ,

, Ruiz, (2004)

, μ μ μ μ

μ , Smithrim & Upitis, (2005)

Dhanapal,(2014), μ μ

μ μ μ ,

Seidel, et al.,(2009), μ

, μ

, ,

Dhanapal,(2014) , (2017),

μ μ μ μ μ μ

, .

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μ μ μ Bamford, (2006) Oreck,

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μ	μ				
	1,00	18	11,92	1,88	,33
	2,00	133	88,08		
		151	100,0		
μ	μ				
	2,00	151	100,00	2,00	,00
		151	100,0		
μ	μ				
	1,00	13	8,61	1,91	,28
	2,00	138	91,39		
		151	100,0		

11:	μ		
	μ	μ	
	μ	3,00	1,66
	μ	4,00	40,40
	μ	5,00	58,94
		151	100,0
N		151	
		0	
		4,58	
		,51	

12: μ			
μ	μ	μ	μ
μ	3,00	3	1,99
μ	4,00	75	49,67
μ	5,00	73	48,34
		151	100,0
N	151		
	0		
	4,46		
	,54		

13: μ			
μ	μ	μ	μ
μ	3,00	8	5,30
μ	4,00	76	50,33
μ	5,00	67	44,37
		151	100,0
N	151		
	0		
	4,39		
	,59		

14:			
μ	μ	μ	μ
μ	3,00	7	4,64
μ	4,00	70	46,36
μ	5,00	74	49,01
		151	100,0
N		151	
		0	
		4,44	
		,58	

15:			
μ	μ	μ	μ
μ	2,00	1	,66
μ	3,00	13	8,61
μ	4,00	67	44,37
μ	5,00	70	46,36
		151	100,0
N		151	
		0	
		4,36	
		,67	

16. μ μ :			
μ	-	μ	μ
		1,00	20
		2,00	112
		3,00	19
			151
			100,0
μ μ μ :			
N			151
			0
			1,99
			,51

17: μ μ .			
μ	μ	μ	μ
		3,00	12
		4,00	75
		5,00	64
			151
			100,0
N			151
			0
			4,34
			,62

18: μ			
μ	μ	μ	μ
	1,00	1	,66
μ	3,00	3	1,99
μ	4,00	49	32,45
μ	5,00	98	64,90
		151	100,0
N		151	
		0	
		4,61	
		,60	

19: μ			
μ	μ	μ	μ
μ	3,00	11	7,28
μ	4,00	68	45,03
μ	5,00	72	47,68
		151	100,0
N		151	
		0	
		4,40	
		,62	

20:		μ	
μ	μ		
	2,00	2	1,32
μ	3,00	15	9,93
μ	4,00	67	44,37
μ	5,00	67	44,37
		151	100,0
N		151	
		0	
		4,32	
		,71	

21.		μ	
μ	μ		
	2,00	1	,66
μ	3,00	3	1,99
μ	4,00	59	39,07
μ	5,00	88	58,28
		151	100,0
N		151	
		0	
		4,55	
		,57	

22.		;	
μ	μ		
	3,00	8	5,30
	4,00	41	27,15
	5,00	102	67,55
		151	100,0
			;
N		151	
		0	
		4,62	
		,59	

23.		;	
μ	μ		
	1,00	147	97,35
	2,00	4	2,65
		151	100,0
			;
N		151	
		0	
		1,03	
		,16	

24. μ ;			
μ	μ		
	2,00	5	3,31
2-3	μ	3,00	26
2-3	μ	4,00	63
	μ	5,00	57
		151	100,0
μ ;			
N		151	
		0	
		4,14	
		,82	

25. μ			
μ	μ		
	2,00	1	,66
	3,00	11	7,28
	4,00	51	33,77
	5,00	88	58,28
		151	100,0
μ			
N		151	
		0	
		4,50	
		,66	

26.			
μ	μ	.	
	2,00	6	3,97
	3,00	34	22,52
	4,00	45	29,80
	5,00	66	43,71
		151	100,0
N		151	
		0	
		4,13	
		,90	

27.			
μ	μ	.	
	1,00	3	1,99
	2,00	32	21,19
	3,00	55	36,42
	4,00	43	28,48
	5,00	18	11,92
		151	100,0
N		151	
		0	
		3,27	
		,99	

28.			
μ	μ		
	1,00	2	1,32
	2,00	16	10,60
	3,00	45	29,80
	4,00	43	28,48
	5,00	45	29,80
		151	100,0
N		151	
		0	
		3,75	
		1,04	

29.			
μ	μ		
	1,00	1	,66
	2,00	16	10,60
	3,00	41	27,15
	4,00	50	33,11
	5,00	43	28,48
		151	100,0
N		151	
		0	
		3,78	
		1,00	

30. μ			
μ	μ	μ	μ
μ	1,00	2	1,32
μ	μ	2,00	30
		3,00	118
		4,00	1
			151
			100,0

μ	
N	151
	0
	2,78
	,46

31. μ :			
μ	μ	μ	μ
	1,00	1	,66
μ	2,00	11	7,28
	3,00	139	92,05
		151	100,0

μ	:
N	151
	0
	2,91
	,30

33.			
μ	μ		
	1,00	110	72,85
	2,00	41	27,15
		151	100,0
N		151	
		0	
		1,27	
		,45	

34.			
μ	μ		
	1,00	110	72,85
	2,00	41	27,15
		151	100,0
N		151	
		0	
		1,27	
		,45	

35. ;			
μ	μ		
	1,00	142	94,04
	2,00	9	5,96
		151	100,0
;			
N		151	
		0	
		1,06	
		,24	

36. ;			
μ	μ		
	1,00	126	83,44
	2,00	25	16,56
		151	100,0
N 151			
		0	
		1,17	
		,37	

37.			
μ	μ		;
	1,00	118	78,15
	2,00	33	21,85
		151	100,0
N		151	
		0	
		1,22	
		,41	

38.			
μ	μ		;
	1,00	111	73,51
	2,00	40	26,49
		151	100,0
N		151	
		0	
		1,26	
		,44	

39.		μ	
μ	μ		
	2,00	151	100,00
		151	100,0
N		151	
		0	
		2,00	
		,00	

41.			
μ	μ	μ	.
μ	μ		
	2,00	1	,66
	3,00	24	15,89
	4,00	110	72,85
	5,00	16	10,60
		151	100,0
μ		μ	
μ	.	μ	
N		151	
		0	
		3,93	
		,54	

42.	μ	μ	μ	μ	μ
	μ	μ			
		2,00	3		1,99
		3,00	27		17,88
		4,00	105		69,54
		5,00	16		10,60
			151		100,0

μ	μ	μ	μ	μ
N				151
				0
				3,89
				,59

43.	μ	μ
	μ	μ
	1,00	3
	2,00	23
	3,00	40
	4,00	54
	5,00	31
		151
		100,0

N	151
	0
	3,58
	1,04

44. ; /			
μ	μ		
	1,00	3	1,99
	2,00	27	17,88
	3,00	44	29,14
	4,00	48	31,79
	5,00	29	19,21
		151	100,0
N		151	
		0	
		3,48	
		1,06	

45. ; μ			
μ	μ		
	1,00	5	3,31
	2,00	26	17,22
	3,00	59	39,07
	4,00	31	20,53
	5,00	30	19,87
		151	100,0
N		151	
		0	
		3,36	
		1,09	

46. ; /			
μ	μ		
1,00	6		3,97
2,00	16		10,60
3,00	43		28,48
4,00	53		35,10
5,00	33		21,85
	151		100,0
N		151	
		0	
		3,60	
		1,07	

47. ;			
μ	μ		
	1,00	19	12,58
	2,00	32	21,19
	3,00	44	29,14
	4,00	33	21,85
	5,00	23	15,23
		151	100,0
N		151	
		0	
		3,06	
		1,24	

48. ;			
μ	μ		
	1,00	16	10,60
	2,00	8	5,30
	3,00	21	13,91
	4,00	51	33,77
	5,00	55	36,42
		151	100,0
N		151	
		0	
		3,80	
		1,28	

49. ;			
μ	μ		
	1,00	8	5,30
	2,00	24	15,89
	3,00	36	23,84
	4,00	45	29,80
	5,00	38	25,17
		151	100,0
N		151	
		0	
		3,54	
		1,18	

50. μ ;			
μ	μ		
	1,00	48	31,79
	2,00	39	25,83
	3,00	32	21,19
	4,00	18	11,92
	5,00	13	8,61
	.	1	,66
		151	100,0
N		150	
		1	
		2,39	
		1,28	

51. μ ;			
μ	μ		
	3,00	18	11,92
	4,00	46	30,46
	5,00	87	57,62
		151	100,0
N		151	
		0	
		4,46	
		,70	

52. ;			
-------	--	--	--

μ	μ		
	3,00	13	8,61
	4,00	36	23,84
	5,00	102	67,55
		151	100,0
N		151	
		0	
		4,59	
		,65	

53. ; /

μ	μ		
	3,00	16	10,60
	4,00	56	37,09
	5,00	79	52,32
		151	100,0
N		151	
		0	
		4,42	
		,68	

54. ; μ



μ	μ		
	1,00	1	,66
	2,00	17	11,26
	3,00	54	35,76
	4,00	39	25,83
	5,00	40	26,49
		151	100,0
N		151	
		0	
		3,66	
		1,01	

55. μ ;

μ	μ		
	1,00	4	2,65
	2,00	15	9,93
	3,00	50	33,11
	4,00	48	31,79
	5,00	34	22,52
		151	100,0
N		151	
		0	
		3,62	
		1,03	

56. μ ;

μ	μ		
	1,00	1	,66
	2,00	16	10,60
	3,00	111	73,51
	4,00	23	15,23
		151	100,0

μ		
		;
N		151
		0
		3,03
		,53

57.	μ	μ	
	μ	μ	;
	1,00	1	,66
	2,00	6	3,97
	3,00	83	54,97
	4,00	47	31,13
	5,00	14	9,27
		151	100,0

μ		μ
		;
N		151
		0
		3,44
		,75



:			
μ	μ		
	1,00	94	62,25
	2,00	57	37,75
		151	100,0
:			
N		151	
		0	
		1,38	
		,49	

59.			
:			
μ	μ		
	1,00	81	53,64
	2,00	70	46,36
		151	100,0
:			
N		151	
		0	
		1,46	
		,50	



: μ			
μ	μ		
	1,00	108	71,52
	2,00	43	28,48
		151	100,0

o : μ	
N	151
	0
	1,28
	,45

61. :			
μ	μ		
	1,00	58	38,41
	2,00	93	61,59
		151	100,0

:	
N	151
	0
	1,62
	,49



:			
μ	μ		
	1,00	81	53,64
	2,00	70	46,36
		151	100,0

:	
N	151
	0
	1,46
	,50

63.:			
μ	μ		
	1,00	107	70,86
	2,00	44	29,14
		151	100,0

:	
N	151
	0
	1,29
	,46

64.			
:			
μ	μ		
	1,00	117	77,48
	2,00	34	22,52
		151	100,0
:			
N		151	
		0	
		1,23	
		,42	

65.			
;			
μ	μ		
	3,00	12	7,95
	4,00	50	33,11
	5,00	89	58,94
		151	100,0
;			
N		151	
		0	
		4,51	
		,64	

66.	μ	μ	μ
	μ	μ	
		1,00	3
		2,00	1
	μ	3,00	4
	μ	4,00	82
	μ	5,00	61
			151
			100,0

μ	μ
N	151
	0
	4,30
	,74