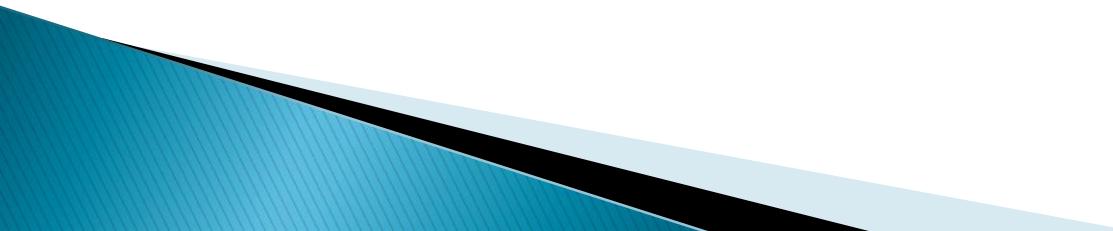


THE IMPACT OF CHESS LESSONS ON FORMATION AND DEVELOPMENT OF THE STUDENTS

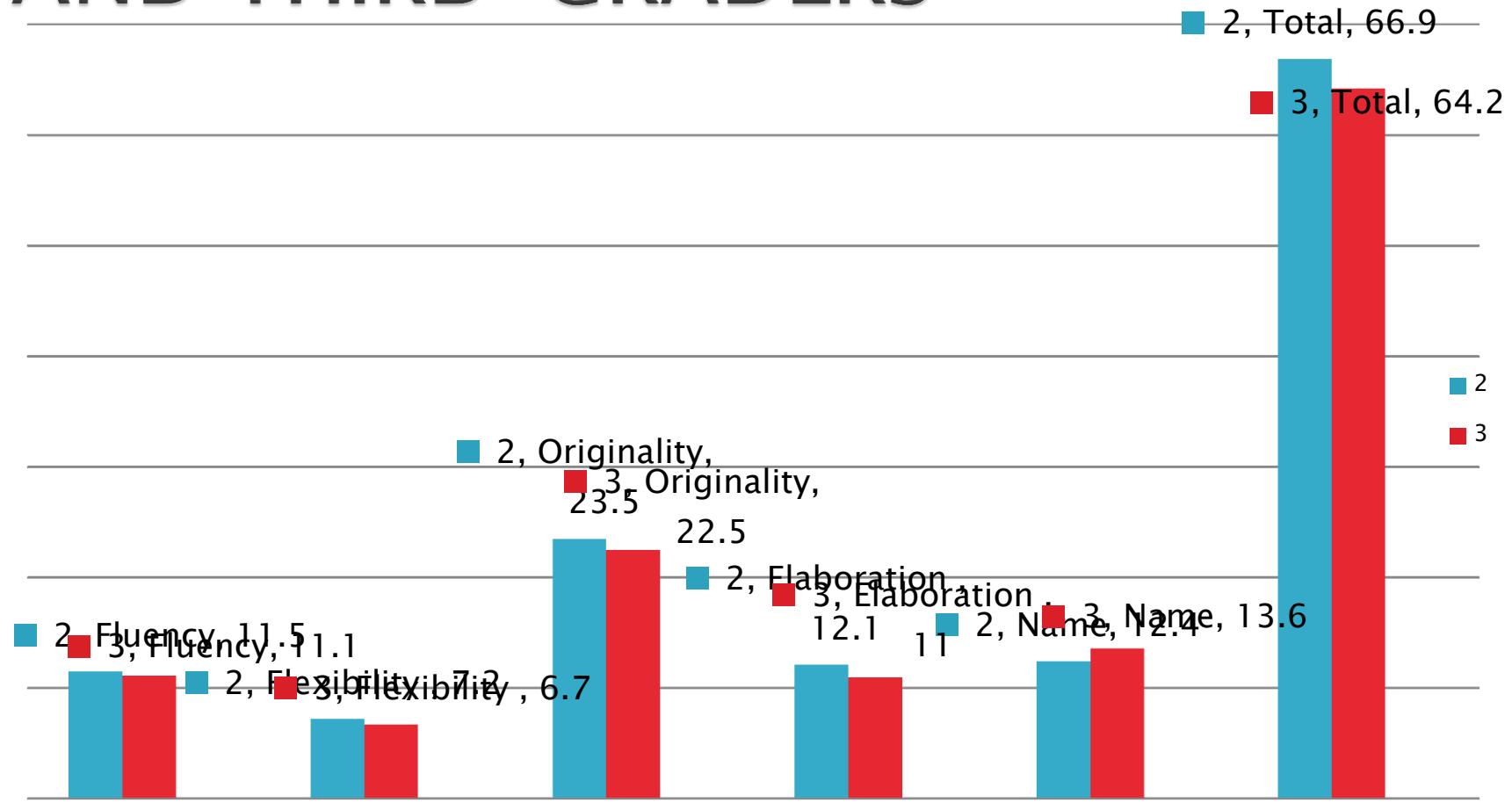
THE STAGES, METHODS AND TECHNIQUES OF RESEARCH



The stages of research	Object of research	Methods and techniques	Classes	Number
The first stage April-May 2012	Creativity	Observation, survey, interview, F. Williams's technique	II	369
			III	276
				645
The second stage October-November 2012	Intellect	Observation, survey, interview, Verbal scale of D. Wechsler's intelligence test	II	90
			III	84
			IV	85
				259
Third stage April-May 2013	Intellect, watchfulness operative visual memory, stability of attention	Observation, survey, interview, Raven's Progressive Matrices, test of watchfulness , technique "Evaluation of operational visual memory,,, Schulte Tables	II	84
			III	90
			IV	111
				285
The fourth stage September-October 2013	Intellect, creativity, memory, attention, watchfulness, emotional sphere, willed qualities, motivation	Observation, survey, interview, Raven's Progressive Matrices, F. Williams's technique, test of watchfulness, technique "Evaluation of operational visual memory,,, Schulte Tables, The cabins,,, Evaluation willed qualities, Technique relation to school subjects GN. Kazanceva	II	44
			III	64
			IV	51
			V	65
				224
The fifth stage February-March 2014	Intellect, creativity, Memory, attention, watchfulness, emotional sphere, similarities arithmetic, digit span	Observation, survey, interview, Raven's Progressive Matrices, F. Williams's technique, test of watchfulness , technique "Evaluation of operational visual memory,,, Schulte Tables, The cabins,,, Observation, survey, interview, Verbal scale of D. Wechsler's intelligence test	II	49
			III	62
			IV	50
			V	63
				224

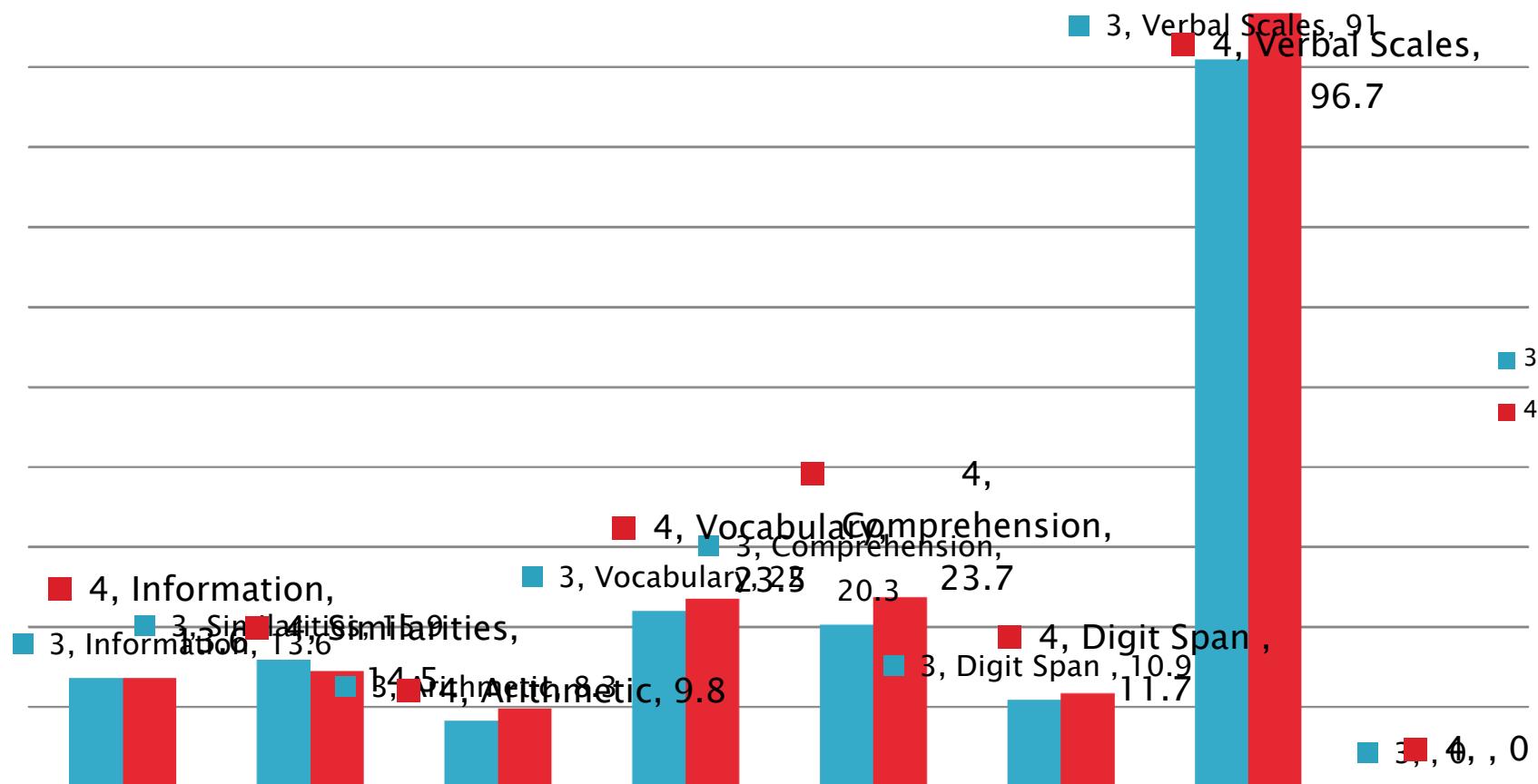
THE RESULTS OF FIRST STAGE OF THE RESEARCH

AVERAGE INDICATORS OF CREATIVITY IN SECOND-GRADERS AND THIRD-GRADERS

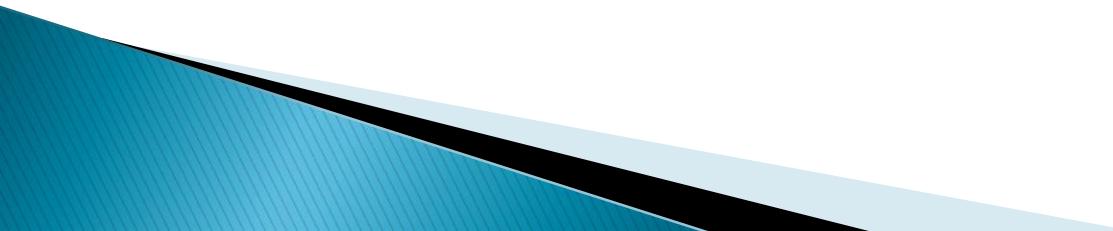


THE RESULTS OF SECOND STAGE OF THE RESEARCH

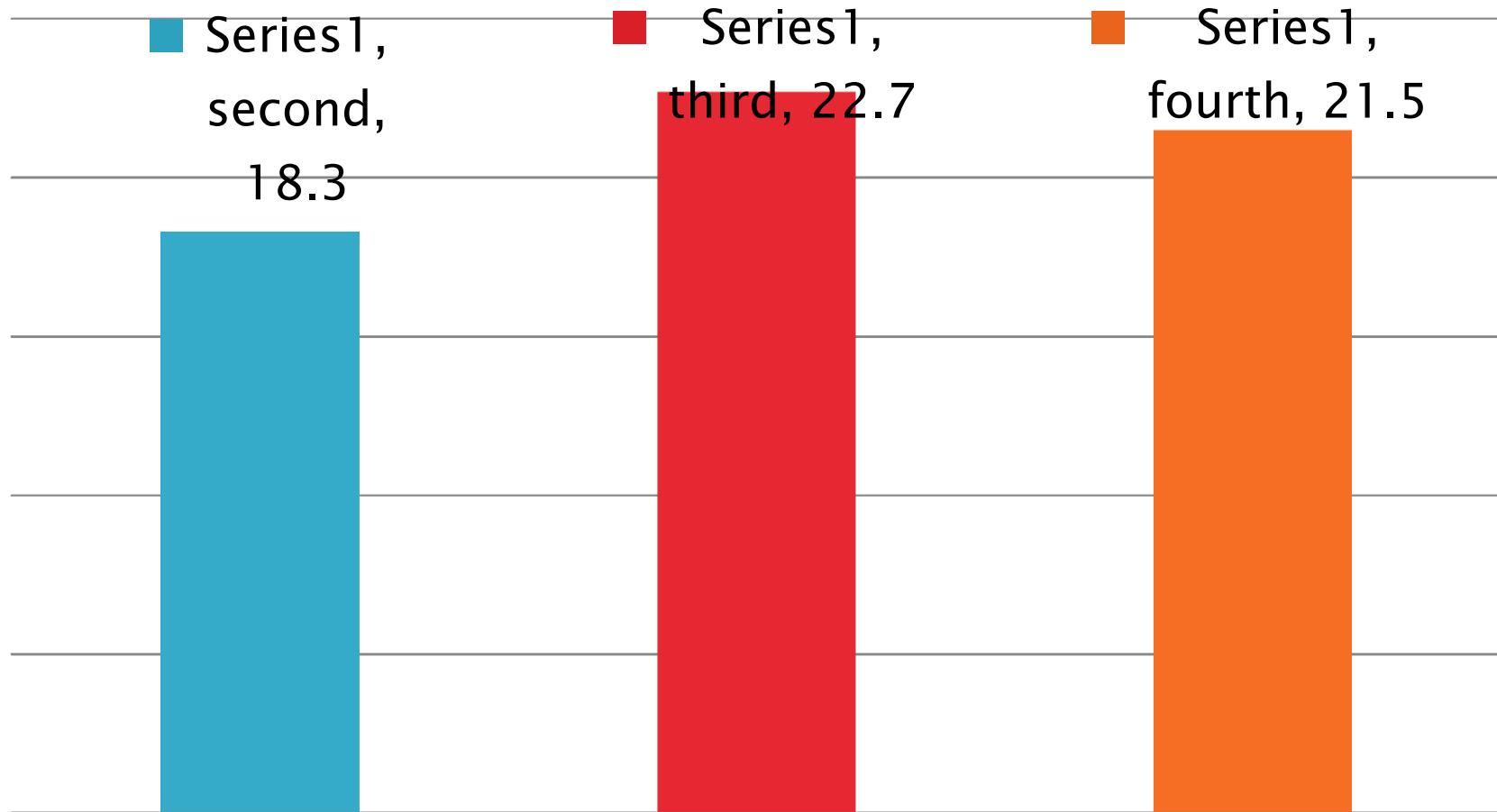
AVERAGE INDICATORS INTELLECT OF THIRD GRADERS AND FOURTH- GRADERS



THE RESULTS OF THIRD STAGE OF THE RESEARCH

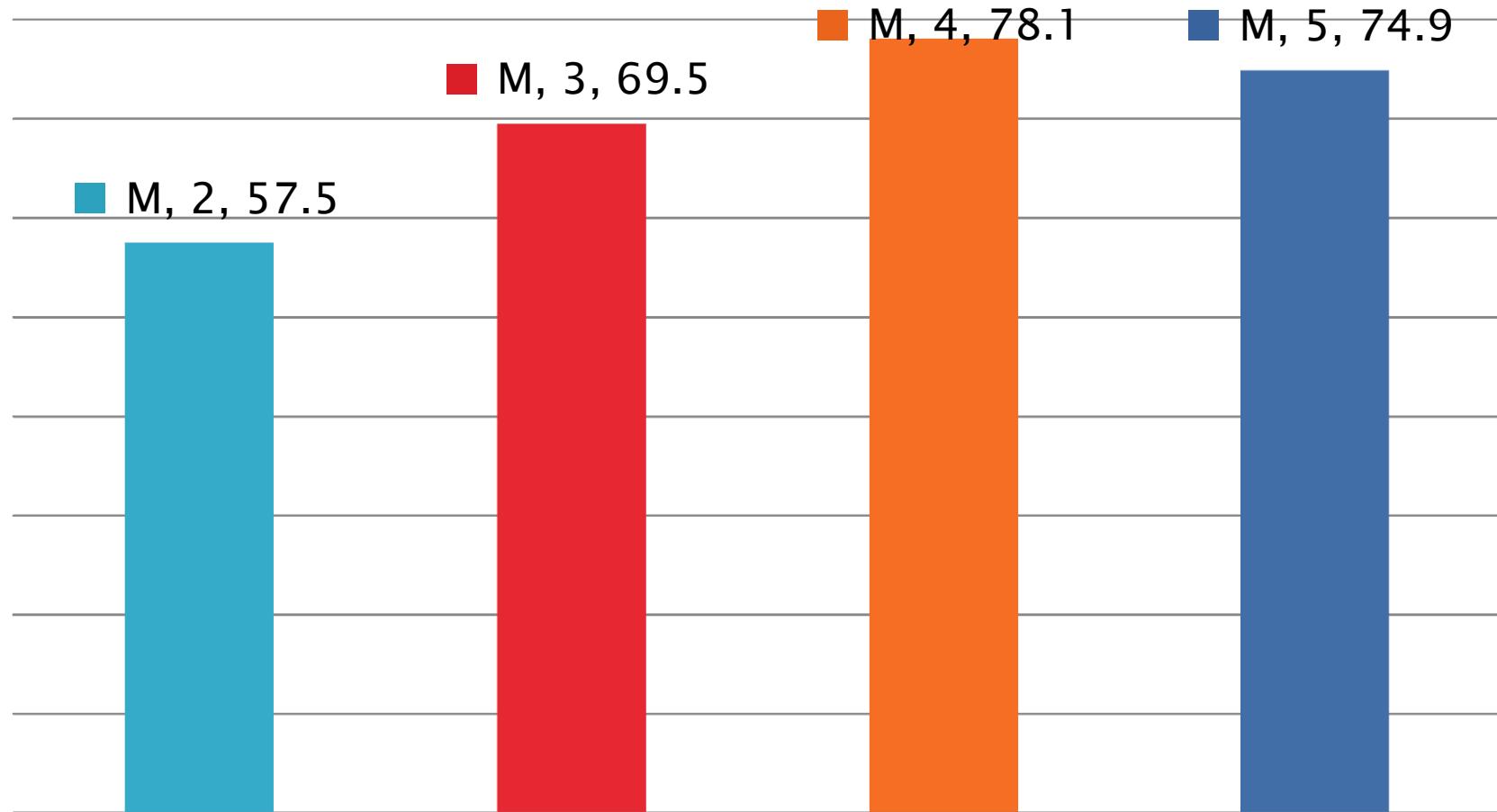


AVERAGE INDICATORS OF THE WATCHFULNESS

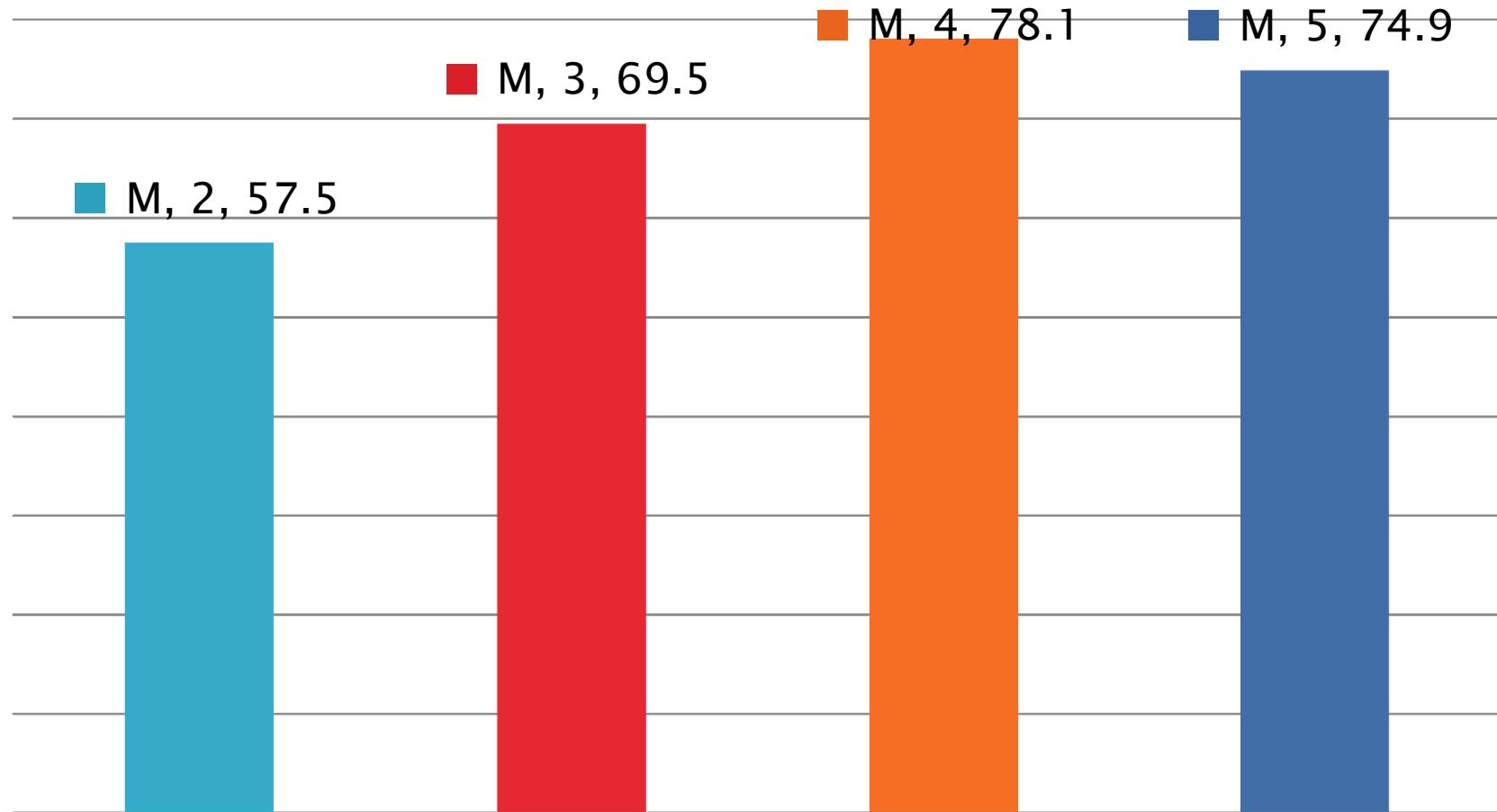


THE RESULTS OF FOURTH STAGE OF THE RESEARCH

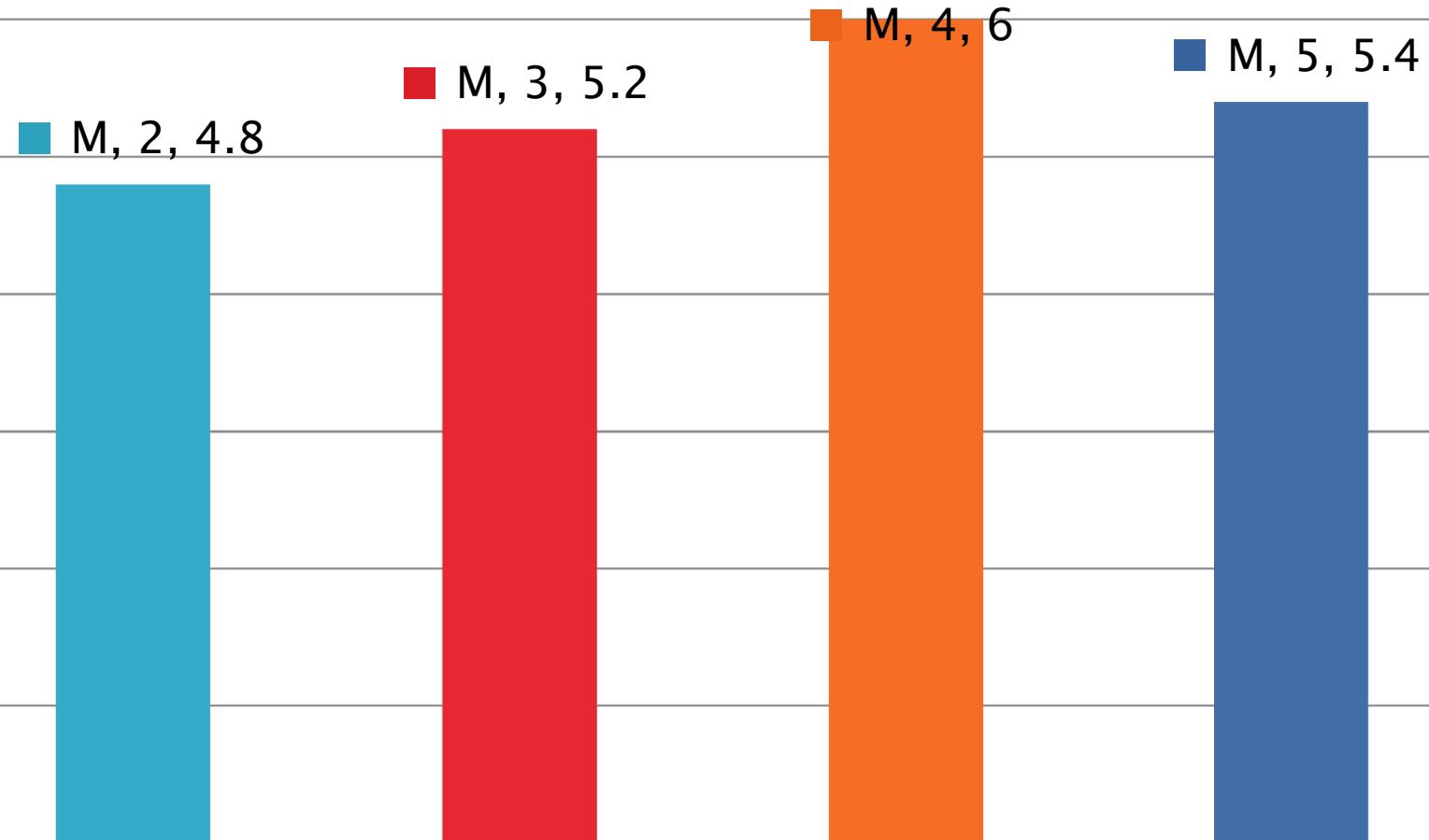
AVERAGE INDICATORS OF CREATIVITY



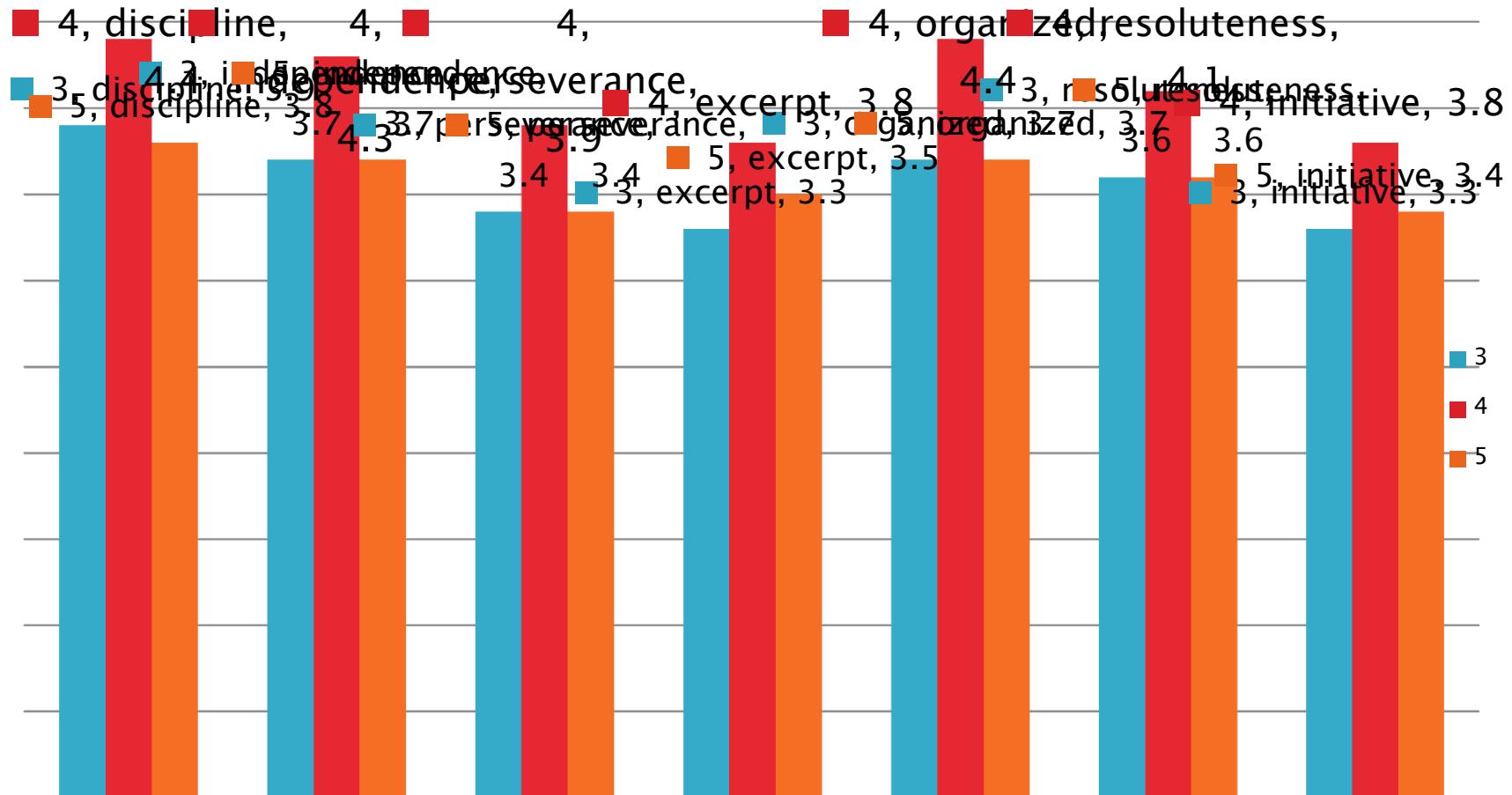
AVERAGE INDICATORS OF CREATIVITY



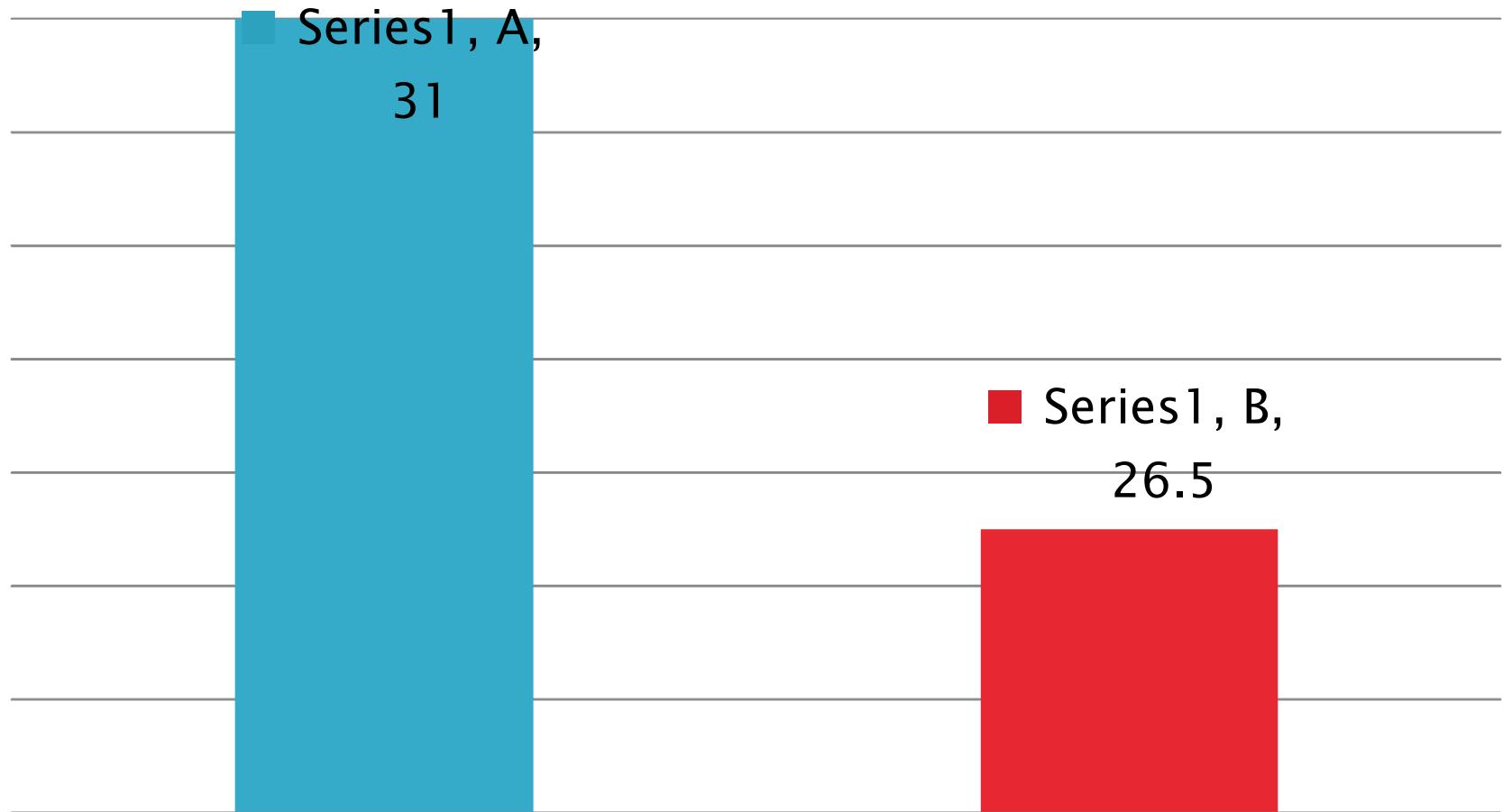
AVERAGE INDICATORS OF OPERATIVE VISUAL MEMORY



AVERAGE INDICATORS OF WILLED QUALITIES

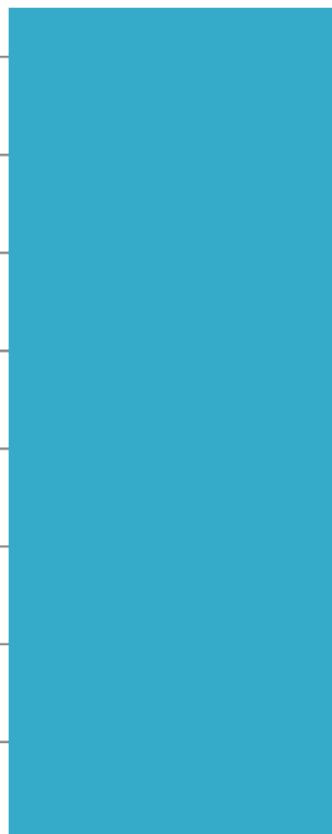


AVERAGE INDICATORS INTELLECT OF GROUPS A AND B



AVERAGE INDICATORS CREATIVITY OF GROUPS A AND B

■ Series1, A, 83



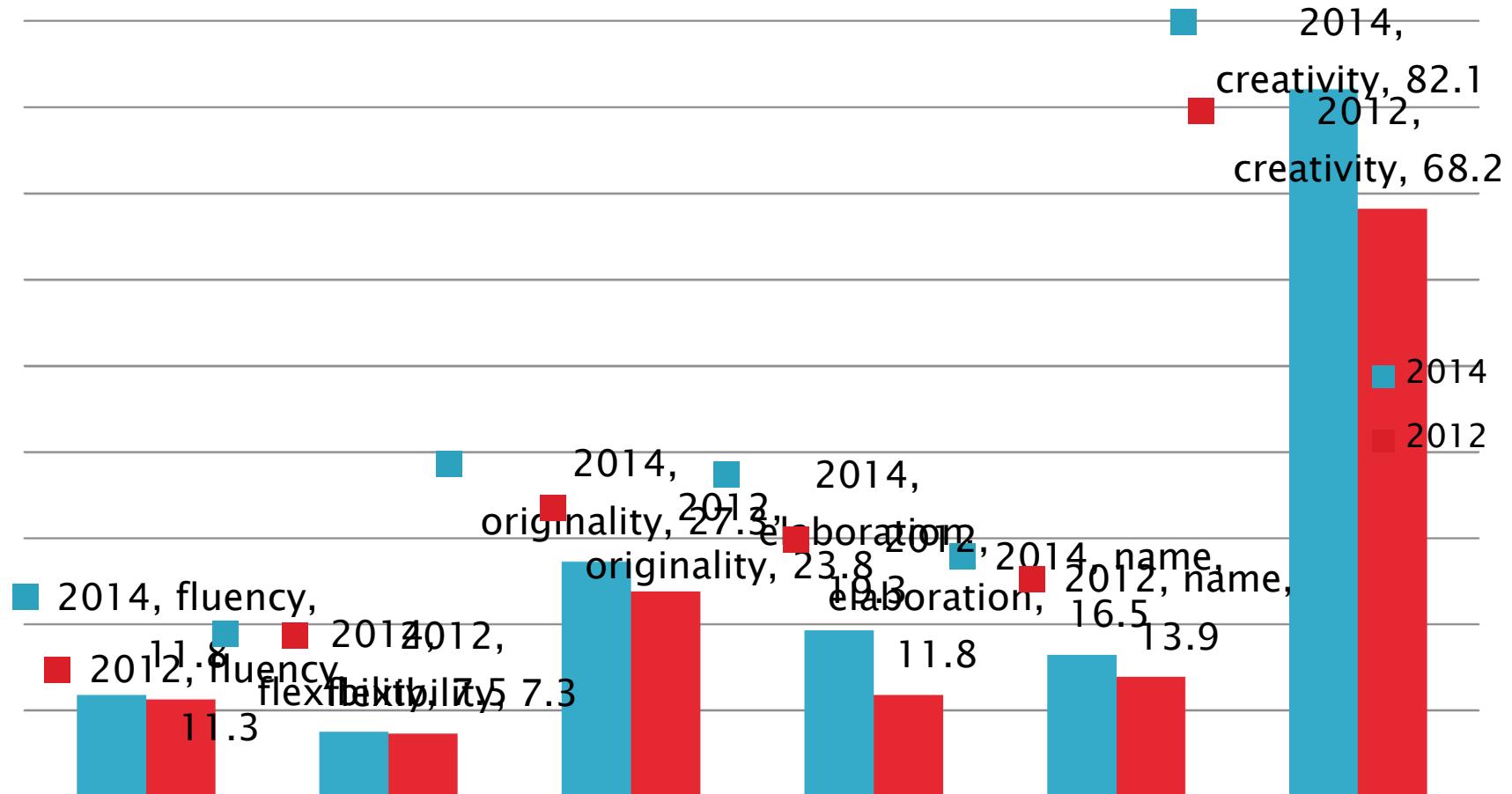
■ Series1, B,
72.3



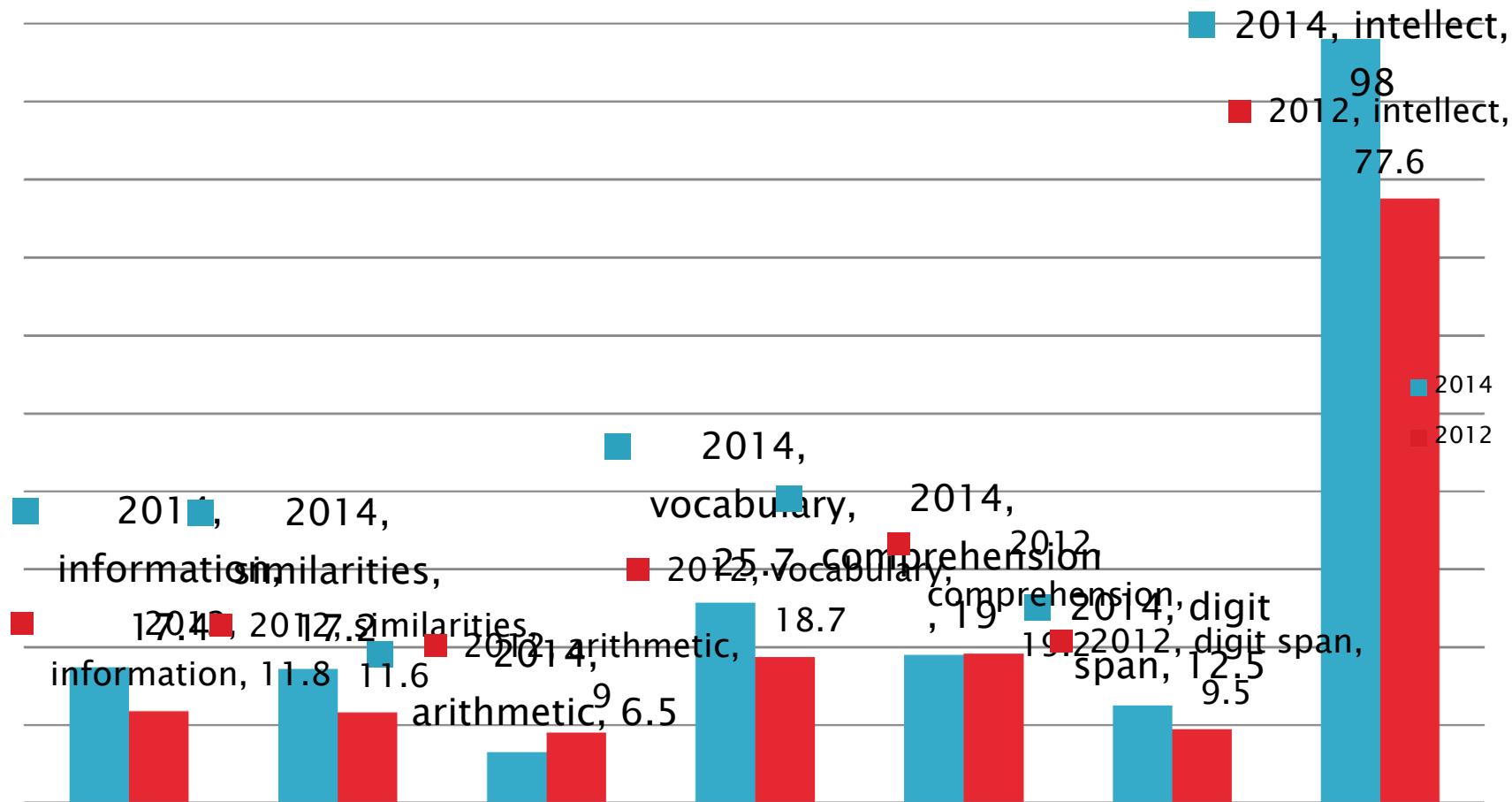
THE RESULTS OF FIFTH STAGE OF THE RESEARCH

FIRST DIRECTION

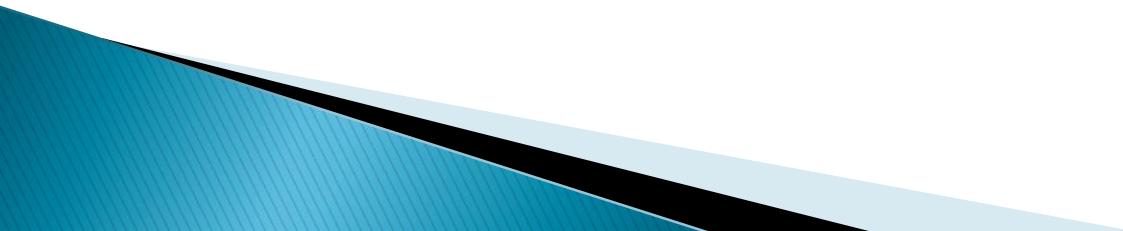
CREATIVITY



INTELLECT



THE SECOND DIRECTION



Classes	II	III	IV	V
M				
Intellect	25,7	28,9	30,8	30,9
watchfulness	12,0	16,4	20,1	19,0
creativity	74,1	79,9	82	74,7
stability of attention	0,59	0,78	0,91	1,05
operative visual memory	4,8	5,2	5,9	5,5
similarities	11,2	14,4	18	17,1
arithmetic	3,7	5,0	5,9	7,1
digit span	8,7	10,2	11,5	13,4

CORRELATION ANALYSIS

- ▶ Intellect and operative visual memory $r=0,42$,
 $p<0,01$,
- ▶ Intellect and watchfulness $r=0,60$, $p<0,001$,
- ▶ Intellect and creativity $r=0,48$, $p<0,001$,
- ▶ Intellect and arithmetic $r=0,43$, $p<0,01$,
- ▶ Intellect and digit span $r=0,42$, $p<0,01$,
- ▶ Intellect and stability of attention $r=0,61$,
 $p<0,001$,
- ▶ watchfulness and operative visual memory
 $r=0,58$, $p<0,001$,
- ▶ operative visual memory and stability of attention
 $r=0,48$, $p<0,001$
- ▶ creativity and similarities $r=0,49$, $p<0,001$

THE COMPARATIVE ANALYSIS OF INDICATORS OF GROUPS A AND B



	A		B	
	2014	2013	2014	2013
Intellect	33,4	31	28,1	26,5
watchfulness	23	17	17,3	14,4
creativity	90,1	83	73,7	72,3
stability of attention	1,04	-	0,76	-
operative visual memory	6,4	6,6	5,3	5,3
similarities	19,9	-	15,9	-
arithmetic	6,8	-	4,9	-
digit span	12,7	-	10,2	-

CONCLUSION

Teaching of chess promotes the development
of

- ▶ creativity
- ▶ intellect
- ▶ memory
- ▶ watchfulness
- ▶ emotional stability
- ▶ logical thinking
- ▶ willed qualities