



Three versions of a new test for assessing creativity in Spanish population (PIC-N, PIC-J, PIC-A)

BARRACA, J., POVEDA, B., ARTOLA, T., MOSTEIRO, P., SÁNCHEZ, N., & ANCILLO, I.



INTRODUCTION TO THE PIC

WHAT IS THE PIC

(Prueba de Imaginación Creativa = Creativity Imagination Test)

Definition:

A test designed to assess creativity through the use of imagination.

Ages:

7 – 99 years (PIC-N: 7-11; PIC-J: 12-17; PIC-A: 18-99).

Components:

- 4 "games" (types of tasks)
 - 3 tasks to assess verbal (narrative) creativity
 - 1 task to assess graphic creativity

Variables.

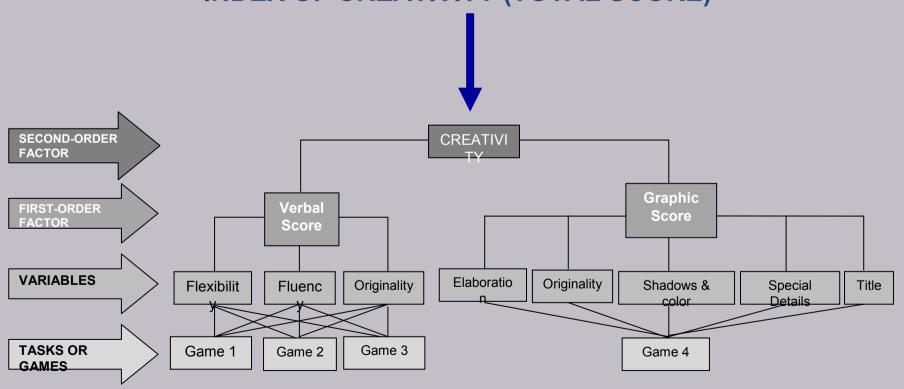
- Fluency of ideas
- Flexibility of thinking
- Originality of the responses
- Elaboration of the responses
- Use of creative details (colour, shadows, expansiveness, rotations, new perspectives, etc.)

INTRODUCTION TO THE PIC

WHAT IS THE PIC

(Prueba de Imaginación Creativa = Creativity Imagination Test)

INDEX OF CREATIVITY (TOTAL SCORE)





INTRODUCTION TO THE PIC



- Artola, T., Ancillo, I., Mosteiro, P., & Barraca, J. (2004). PIC-N. Prueba de Imaginación Creativa para Niños. Madrid: TEA Ed.
- Artola, T., Baraca, J., Mosteiro, P., Martín, C., Ancillo, I., & Poveda, B. (2008). PIC-J: Prueba de Imaginación Creativa para Adolescentes y Jóvenes. Madrid: TEA Ed.
- Artola, T., Ancillo, I., Barraca, J., Mosteiro, P., Poveda, B., & Sánchez, N. (2010). PIC-A: Prueba de Imaginación Creativa para Adultos. Madrid: TEA Ed.



PIC-N



INSTRUCTIONS

"Look at the picture and imagine everything that could be happening. Don't tell a story, but write all the ideas that come to your mind (each one on a different line). In this game there are no right or wrong answers, so let go your imagination and fancy and try to write as many ideas as you can".

For example: "It is an adventure scene"

(Time limit: 10 minutes).



PIC-J



INSTRUCTIONS

"Look at the picture and imagine everything that could be happening. Don't tell a story, but write all the ideas that come to your mind (each one on a different line). In this game there are no right or wrong answers, so let go your imagination and fancy and try to write as many ideas as you can".

For example: "It is an adventure on a lake"

(Time limit: 10 minutes).



PIC-A



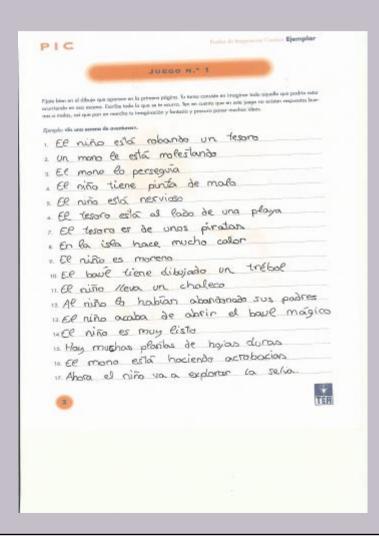
INSTRUCTIONS

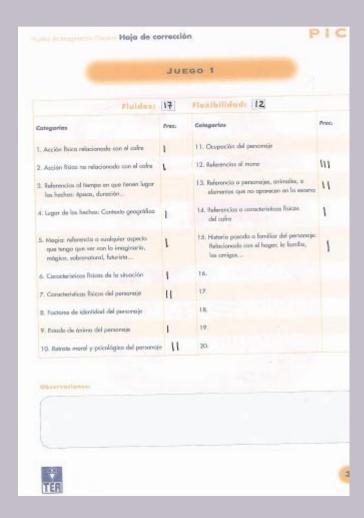
"Look at the picture and imagine everything that could be happening Don't tell a story, but write all the ideas that came to you (each one on a different line). In this game there are not right or wrong answers, so let go your imagination and fancy and try to write as many ideas as you can".

For example: "A man plays a guitar"

(Time limit: 10 minutes).

CORRECTION







THE SAME TASKS FOR PIC-N, PIC-J, & PIC-A

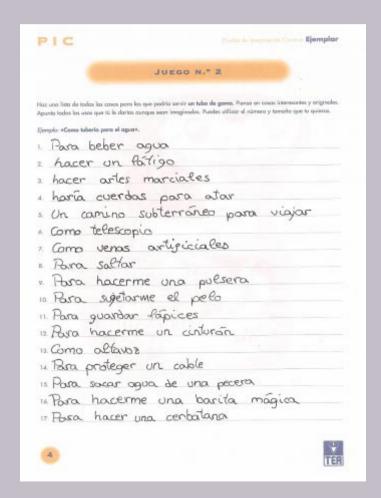
INSTRUCTIONS:

Write a list of everything that you could do with a plastic pipe. Think of interesting and original things, however fantastic they may be. You can use the number and length of pipes you wish."

EXAMPLE: "As pipeline"



CORRECTION





PIC-N

INSTRUCTIONS:

"Imagine what would happen if suddenly every squirrel became a dinosaur. Don't tell a story, but write a list of the things that could happen."

Example: "They would eat all the threes".

Time limit: 10 minutes.

PIC-J

INSTRUCTIONS:

"Imagine what would happen if suddenly the floor became elastic. Don't tell a story, but write a list of the things that could happen."

Example: "We would be jumping all day long."

Time limit: 10 minutes.

PIC-A

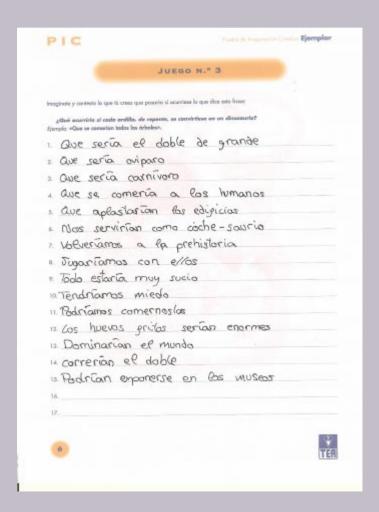
INSTRUCTIONS:

"Imagine what would happen if we never stopped growing. Do not tell a story, but write a list of the things that could happen."

Example: "We would need to change clothes all the time".

Time limit: 10 minutes.

CORRECTION



PIC	Puebe de Irraginación Creativa Ejemplar
C	Juego N.º 3
	que tú crees que pasaria si ocurriese lo que dice esta frase:
	mos todo el día botando. Man temper hacer abras
2 Para Lacer	obras se recositarian punsones gigantes
	brinou se llegaria muy lejos
	exiktish loc avianes. it de again Francia en un callo
7. No se ne	cositatish coches.
	cesileria transporte público:
	arrasaria toda la tierra.
12 aund 65	perios lagan sus recessibiles las necessibiles esta
13. No specificad	nos ester quietos con eiele
15,	
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	₩



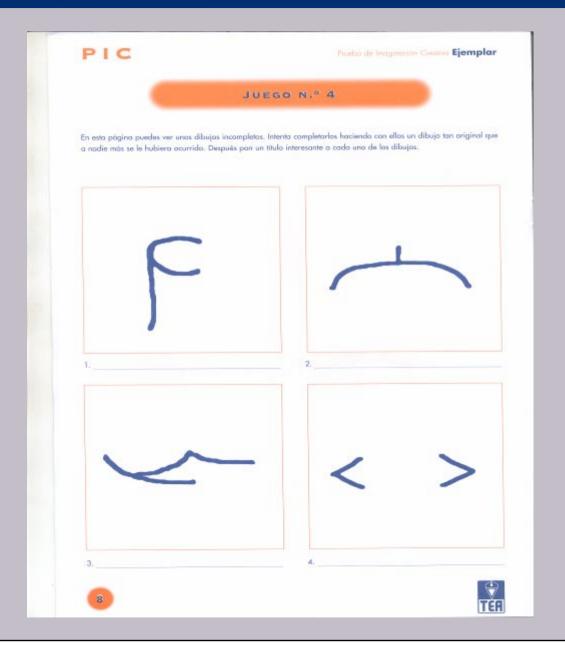
THE SAME TASKS FOR PIC-N, PIC-J, & PIC-A

INSTRUCTIONS:

"In this page you will see some incomplete drawings. Try to complete them with such originality that no one else would draw the same. When you have finished, write an interesting title for each drawing".

Time limit: 10 minutes

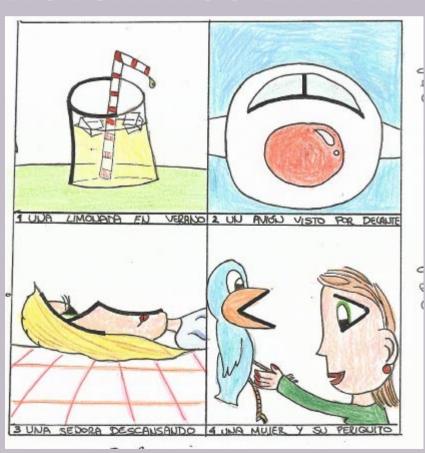






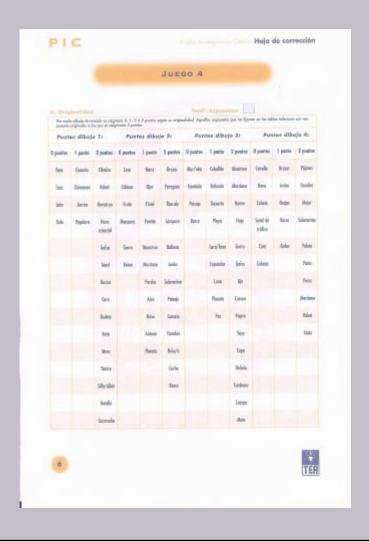
EXAMPLES:

HIGH GRAPHIC CREATIVITY VS. POOR GRAPHIC CREATIVITY

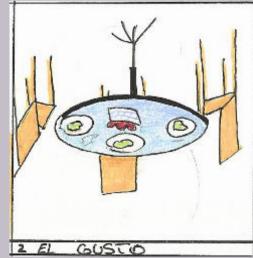




CORRECTION AND EXAMPLES: ORIGINALITY

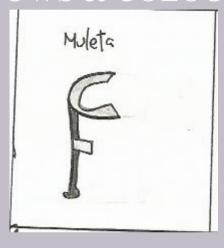






CORRECTION AND EXAMPLES: ELABORATION AND SHADOWS & COLOUR



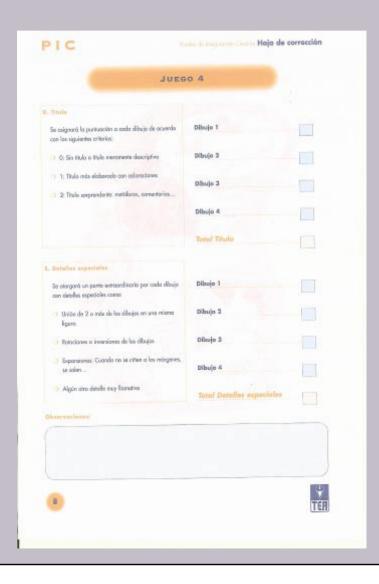






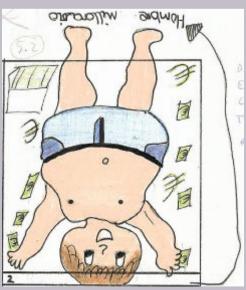


CORRECTION AND EXAMPLES: TITLE AND SPECIAL DETAILS

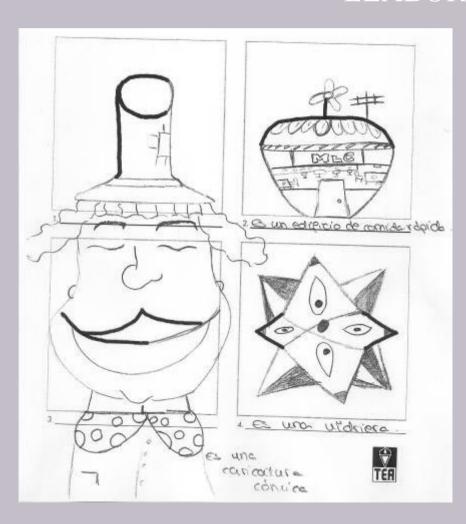








CORRECTION AND EXAMPLES: SPECIAL DETAILS AND ELABORATION





SAMPLE

PIC-N:

637 participants (M: 449; F: 188): Ages: 8-12

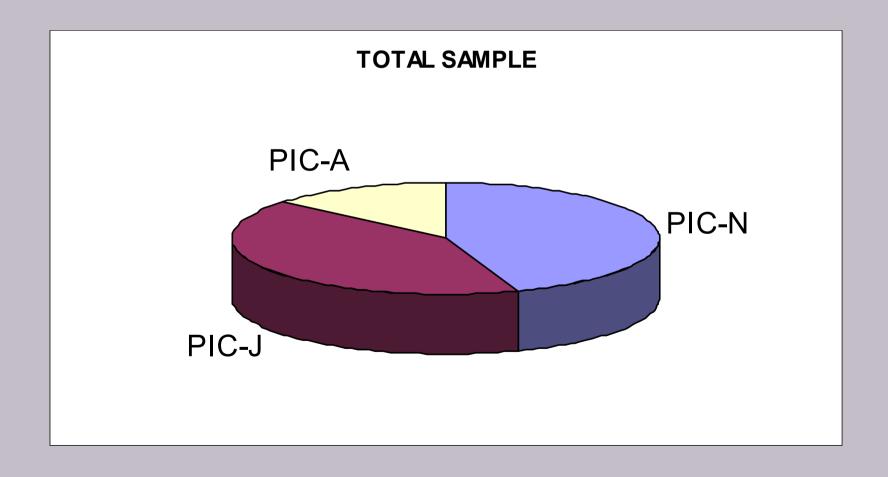
PIC-J:

600 participants (M: 264; F: 336). Ages: 11-19

PIC-A:

200 participants (M: XX; F: XX). Ages: 18-76

SAMPLE (PIC-N, PIC-J, PIC-A)



RELIABILITY

	Cronbach's Alpha
PIC-N	.83
PIC-J	.85
PIC-A	.81

VALIDITY: PIC-N

	PIC-N		
	Narrative Creativity	Graphic Creativity	Total Creativity
Factor g	.31**	.33**	.30**
RAVEN	.30**	.38**	.34**
EDAC (High Abilities Test)	.25**	.16*	.23**
Academic Scores	.19*	.06	.16
Nominated by peers (leadership)	.16*	.04	.11

* *p* < .05; ** *p* < .01

VALIDITY: PIC-J

	PIC-J		
	Narrative	Graphic	Total
	Creativity	Creativity	Creativity
Factor g	.20	.25**	.22*
NEO PI - R			
Openness	.07	.27**	.10
Aesthetics (O2)	.17	.27**	.19*
Openness to new ideas (05)	.23*	.25**	.25**
Old Values (O6)	37**	05	36**
Agreeableness	.11	.19*	.12
Conscientiousness	.19*	.12	.20*
Competente (C1)	.24**	.12	.24**
Positive Emotions (E6)	.19*	.22*	.21*
CREA (Creativity Fluency Test)	.43**	.21*	.44**

p < .05; **p < .01

VALIDITY: PIC-A

	PIC-A		
	Narrative	Graphic	Total
	Creativity	Creativity	Creativity
Factor g	.32*	03	.29
CREA (Creativity Fluency Test)	.46**	.01	.43**
NEO PI - R			
Openness	.38*	.23	.40**
Fantasy (01)	.38*	.17	.38*
Openness to new ideas (05)	.48**	.17	.48**
Angry Hostility (N2)	32*	15	33*
Positive Emotions (E6)	.38*	.10	.38*
Competente (C1)	.40**	.06	.39**
Tender-Mindedness	.37*	.08	.37*

* p < .05; ** p < .01

CONCLUSIONS

- 1. The PIC fills a gap in the assessment of creativity. An aspect considered very important in new models of high abilities.
- 2. It tests relevant variables of creativity: Fluency, flexibility, originality, elaboration of ideas, etc.
- 3. Its factor structure is consistent with main research in the area (differences between narrative and graphic creativity).
- 4. The age range is very wide.
- 5. It allows comparisons between age groups because of the similarity in the tasks used,
- 6. It has an acceptable internal consistency (so problematic in the creativity test) and its validity has been verified.

CONCLUSIONS

- 7. The PIC assesses both verbal and graphic creativity.
- 8. It summarizes and incorporates many of the most widely used tests (Torrance, Guilford, CREA...).
- 9. Its correction is more simple and objective than other tests.
- 10. The development of the manual and examples of protocols has produced a high interrater agreement.
- 11.It has a good distribution by a major publisher in Spain and in South America.
- 12. Its adaptation to other languages is easy.



www.villanueva.edu

tartola@villanueva.edu

