



Designing and standardizing a set of tests for some of the complex skills of football players ages (15-16) years

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Abstract

The introduction to the new tests developed by the teacher or trainer included the design or creation of some tests to be used to achieve the goals published by the trainer and determine the development of these tests because of the correlation for several reasons that the tests are not suitable for use in the local environment and in the research procedures, The research sample consisted of the players of the National Center for the care of sports talents football where the number of players (196) of the ages (15-16) years. The main results of the research proved that the results of tests of composite skills are valid for tests and was challenged Standards (revised standard sequence) for tests.

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Introduction

The new tests developed by the teacher or trainer-the design or construction of some tests for use in achieving the goals published by the trainer and determine the development of these tests because of the association of several reasons, including that the tests are not suitable for use in the local environment. Tests are an important means of measurement or measurement tactics. The measurement includes all the means that can be used in all data. On the other hand, the test is done according to specific conditions such as rationing and objectivity. So it is important to have a relationship between the goals set and the tests used, because the tests are only a means to help us to evaluate performance and compare levels to goals set. The game of football is characterized by a variety of complex skills and important elements in the development of player performance and development of these variables need to continue the process of training and testing on a continuous basis and any weakness in these skills leads to weakness and low level of performance of the player skill as the player cannot match the training requirements. It requires good strength, speed and compatibility in performance.

As it is one of the games in which there are many complex skills, which in turn require many tests to measure it so it can stand on the condition of the player skill added to the planned scientific sports planning based on the foundations and rules of sports training.

These components must be composed of two skills and more (eg rolling, handling, scoring, putting down). The focus is on the player's personal experience and his own skillful abilities and then the trainer is offered to choose the most appropriate. Identifying these skills helps to put the skills of the player in the right place for the importance of each skill.

Most tests measure only one variable. Hence the importance of research by constructing tests that measure more than one variable in a single test by linking the most frequently used skills throughout the game and during game play. And Research Objectives: Design of battery for testing some of the complex skills of football players (ages 15-16) and

standardization of test battery for some of the complex skills of football players ages (15-16) years.

Materials and methods

Previous studies

Design and standardization of battery test to measure some of the basic platforms installed football for Premier League players (Hassan, The design and standardization of battery test to measure some of the basic skills of football for the players of the Premier League, 2018).

The study aimed to

Design of tests that measure some of the basic platforms installed for football players of the Premier League, and codification. Extracting the test battery that measures some of the core platforms installed for Premier League football.

Derivation of standards and levels of battery extracted

The researcher used the descriptive method in the survey method. The sample size reached 220 football players in the Iraqi Premier League for the 2016/2017 season. The researcher reached the following conclusions: Circulation of the battery extracted on the coaches of the Premier League soccer clubs in the Iraqi league, for the purpose of application, and benefit in measuring the level of basic platforms installed in the players sample study.

Use of battery tests extracted by the football coaches of the Premier League clubs in determining the level of performance of players: Accreditation of criteria and levels reached in the process of evaluation, classification and the development of training programs based on the testing of the battery extracted, being closer to real situations of play.

Design of the technical tests is part of a battery test for young football players in the city of Erbil (Karim, Design of complex technical tests as part of test battery for young football players in Erbil City, 2003)

Research goals

Design some of the tests of the skill of football. Creating the universal honesty of the designed technical tests. Build a battery test for the skill of football. Setting the standard battery for the skill of football.

The research sample

The sample of the study was three clubs in the city of Erbil, where the number of players (106) players percentage (91.80%) of the community of origin.

The most important conclusions

The analysis using orthogonal rotation was performed on (28) skill tests, and ten factors were shown. Six factors were accepted in light of the conditions set for the acceptance of the worker. The standard grades have been reached and tables for the six battery units have been established.

Discussion of the two previous studies

Through the presentation of the previous two studies, we note the following:

By looking at the two similar studies mentioned, we observe the existence. A similarity in the variables studied for each study with the current study. The current study has agreed with the two previous studies in the use of the descriptive approach. The number of the sample in the previous two studies is appropriate with the current study with the largest sample number. The previous two studies agreed to use the tests as data collection methods and this was followed by the procedures of this study. The researcher has been informed of the procedures of the previous two studies and how to deal with the data to serve the course of this study.

Study areas

National Stadiums for Sports Fitness in Iraq.

Research Methodology

The descriptive approach was used to suit the nature of the research

Research community and design

The research community was determined by the players of the national sports talent centers in Iraq. Thus, the sample consisted of (196) players from the research community consisting of 204 players representing 96.07% of the research community.

Tools used

- Electronic stopwatch (1/100) of second type (RS) German-made number (2)

- Personal computer (laptop) type (hp). Chinese-made.
- Leather measuring tape length (30 m)
- A metal measuring tape length (7.5 m)
- Plastic Figs number (16)
- whistle number (1)
- Colored chalk, ropes, colored cards.
- Camcorder type (Sony-Digital) Japanese-made number (1) for authentication.
- Football balls type (adidas) Pakistani-made number (5)
- Flags (12)
- A length of 1m
- small goal length 1m

Field research procedures

Identification of composite skills

After reviewing many sources and references and the results of the research and review of some available sources that fit the subject of the study, the researcher and in agreement with the supervisor identified complex skills are Selected.

Table 1. showing complex tests.

Composite skills	
Handling - scoring	1
Rolling – Handling	2
Suppression - handling - scoring	3
Suppression - rolling - scoring	4

Identification of complex skill tests

In order to obtain the appropriate tests for the skills of football, the researcher conducted a comprehensive survey of many sources and scientific research. The researcher extracted a number of tests to help him reach his final goals in agreement with the supervisor Selected tests for composite skills.

The researcher used the validity of the content based on the opinion of experts. It aims to know the extent of the test of the behavioral phenomenon or the subject that aims to measure this type of honesty is one of the most important types used in the tests and used self-honesty by finding the root of stability and the results showed that all tests are true.

Table 2. Showing complex skill tests.

Test	Composite skills
2 the goal of handling the face of a colleague and then scoring in front of a divided goal	handling - scoring
3 rolling handling (6) m then handling a small goal	Rolling – Handling
4 the goal of putting the ball down and handling the mate and then scoring towards the goal of the divider	Suppression - handling – scoring
5 the goal of putting down the ball and then roll the ball between the characters Zkzak and then scoring to the goal divided	Suppression - rolling - scoring

Validate the test

The researcher used the validity of the content based on the opinion of experts. It aims to know the extent of the test of the behavioral phenomenon or the subject that aims to measure this type of honesty is one of the most important types used in the tests and used self-honesty by finding the root of stability and the results showed that all tests are true.

Table 3. Shows the values of honesty, showing the percentage of expert opinions on.

Percentage	Proposed	Expert opinions		Tests
		Disagree	Agree	
1	%100	0	9	The goal of handling the face of a colleague and then scoring in front of a divided goal
2	%88.8	1	8	Rolling handling (6) m then handling a small goal
3	%100	0	9	The goal of putting the ball down and handling the mate and then scoring towards the goal of the divider
4	%100	0	9	The goal of putting down the ball and then roll the ball between the characters Zkzak and then scoring to the goal divided

Stability of the test

The researcher conducted a test on a survey sample of 26 players on 20/3/2018. After seven days, the test was repeated under the same conditions. The researcher collected the data from the tests. After the results were treated statistically, High

Objectivity of the test

The tests used in the research are objective tests where the objective test is "the test which gives the same results no matter what the content is different, that is, the results are not affected by the corrected self or personality." (Obaidat & and others, Scientific Research, 1988) The researcher used the tests by the referees and the results of two arbitrators. The correlation and table shows consistency and objectivity.

Table 4. Shows the value of consistency and objectivity.

	Objectivity		Stability		tests
	Level of error	Value (t)	Level of error	Value (t)	
1	0,000	0,977	0,000	0,881	The goal of handling the face of a colleague and Then scoring in front of a divided goal
2	0,000	0,922	0,000	0,863	rolling handling (6) m then handling a small goal
3	0,000	0,904	0,000	0,643	the goal of putting the ball down and handling the mate and then scoring towards the goal of the divider
4	0,000	0,932	0,000	0,722	the goal of putting down the ball and then roll the ball between the characters Zkzak and then scoring to the goal divided

Discriminatory capacity

The researcher conducted the ability of excellence through the pilot experiment. The researcher found that the tests have distinct abilities through the differences between the high grades of (19) players and the minimum (19) players as shown.

Table 5. Showing Discriminatory capacity.

Significance of differences	Level of error	Value t	Minimum		Minimum		Test
			P	S	P	S	
Moral	0,000	15,811	0,458	5,894	0,561	3,263	The goal of handling the face of a colleague and then scoring in front of a divided goal
Moral	0,000	14,735	0,602	6,157	0,630	3,210	Rolling handling (6) m then handling a small goal
Moral	0,000	19,165	0,621	8,947	0,507	5,421	The goal of putting the ball down and handling the mate and then scoring towards the goal of the divider
Moral	0,000	16,434	0,602	8,842	0,561	5,736	The goal of putting down the ball and then roll the ball between the characters Zkzak and then scoring to the goal divided

At the level of a line (0,05 and the degree of freedom (34).

Experimental experiment

The pilot experiment was conducted by a team of 8 players from the National Center for the Endurance of Sports Fitness Al Shaab Stadium

Main experience

The researcher carried out the final implementation of the tests on the specific sample. This experiment was conducted for the period (20/6/2018 to 12/7/2018).

Statistical means

The researcher used the statistical system (SPSS) to process the search results.

Result and discussion

After testing the skills in the research sample of the players of the national centers for the care of sports

talent in Iraq, the data was processed statistically to reach the results and achieve the objectives of research and its hypothesis. Table (6) shows the computational and standard deviations and the torsion coefficients of the sample members on the technical tests, which showed that the values of the averages exceeded the values of the torsion coefficients ranged between (3)."Which confirms that all tests achieve the moderate curve, the tests are distributed moderately for the study sample individuals" (Al-Bahi, Psychology and measuring the human mind, 1978).

The test results for the four test scores show the mean, median, standard deviation, torsion coefficient, highest value, lowest value, constant factor

Table 6. Metadata of the variables.

The goal of putting down the ball and then roll the ball between the characters Zkzak and then scoring to the goal divided	The goal of putting the ball down and handling the mate and then scoring towards the goal of the divider	Rolling handling (6) m then handling a small goal	The goal of handling the face of a colleague and then scoring in front of a divided goal	Variables
7,6300	7,7400	4,8100	4,4800	Arithmetic mean
8,0000	8,0000	5,0000	5,0000	Mediator
1,116	1,315	1,160	1,226	standard deviation
0,486-	1,027-	0,648-	0,187-	Sprains
0,241	0,241	0,241	0,241	Sprains
5,00	5,00	3,00	3,00	highest value
0,11	0,13	0,11	0,12	Fixed number

Finding standard grades in sequence

The researcher has extracted the standard scores for the composite tests by converting the raw grades to the standard T scores using the relay method.

The arithmetic mean is placed in the middle of the

values in front of the standard value (50) By extracting the constant number for each test, the constant is added ascending or descending until the ascending reaches 100, while the descent to 0 (Meyers, Measurement in Physical Education, 1974).

Table 7. Shows the standard scores in sequence in the tests.

Standard grades	Raw grades for Test 4	Raw grades for Test 3	Raw grades for Test 2	Raw grades for Test 1	Standard grades
100	13.13	14.24	10.31	10.48	100
99	13.02	14.11	10.2	10.36	99
98	12.91	13.98	10.09	10.24	98
97	12.8	13.85	9.98	10.12	97
96	12.69	13.72	9.87	10	96
95	12.58	13.59	9.76	9.88	95
94	12.47	13.46	9.65	9.76	94
93	12.36	13.33	9.54	9.64	93
92	12.25	13.2	9.43	9.52	92
91	12.14	13.07	9.32	9.4	91
90	12.03	12.94	9.21	9.28	90
89	11.92	12.81	9.1	9.16	89
88	11.81	12.68	8.99	9.04	88
87	11.7	12.55	8.88	8.92	87
86	11.59	12.42	8.77	8.8	86
85	11.48	12.29	8.66	8.68	85
84	11.37	12.16	8.55	8.56	84
83	11.26	12.03	8.44	8.44	83
82	11.15	11.9	8.33	8.32	82
81	11.04	11.77	8.22	8.2	81
80	10.93	11.64	8.11	8.08	80
79	10.82	11.51	8	7.96	79
78	10.71	11.38	7.89	7.84	78
77	10.6	11.25	7.78	7.72	77
76	10.49	11.12	7.67	7.6	76
75	10.38	10.99	7.56	7.48	75
74	10.27	10.86	7.45	7.36	74
73	10.16	10.73	7.34	7.24	73
72	10.05	10.6	7.23	7.12	72
71	9.94	10.47	7.12	7	71
70	9.83	10.34	7.01	6.88	70
69	9.72	10.21	6.9	6.76	69
68	9.61	10.08	6.79	6.64	68
67	9.5	9.95	6.68	6.52	67
66	9.39	9.82	6.57	6.4	66
65	9.28	9.69	6.46	6.28	65
64	9.17	9.56	6.35	6.16	64
63	9.06	9.43	6.24	6.04	63
62	8.95	9.3	6.13	5.92	62
61	8.84	9.17	6.02	5.8	61
60	8.73	9.04	5.91	5.68	60
59	8.62	8.91	5.8	5.56	59
58	8.51	8.78	5.69	5.44	58
57	8.4	8.65	5.58	5.32	57
56	8.29	8.52	5.47	5.2	56
55	8.18	8.39	5.36	5.08	55
54	8.07	8.26	5.25	4.96	54
53	7.96	8.13	5.14	4.84	53
52	7.85	8	5.03	4.72	52
51	13.13	14.24	10.31	10.48	51
50	7.63	7.74	4.81	4.48	50
49	7.52	7.61	4.7	4.36	49
48	7.41	7.48	4.59	4.24	48
47	7.3	7.35	4.48	4.12	47
46	7.19	7.22	4.37	4	46
45	7.08	7.09	4.26	3.88	45
44	6.97	6.96	4.15	3.76	44
43	6.86	6.83	4.04	3.64	43
42	6.75	6.7	3.93	3.52	42
41	6.64	6.57	3.82	3.4	41
40	6.53	6.44	3.71	3.28	40
39	6.42	6.31	3.6	3.16	39
38	6.31	6.18	3.49	3.04	38

Standard grades	Raw grades for Test 4	Raw grades for Test 3	Raw grades for Test 2	Raw grades for Test 1	Standard grades
37	6.2	6.05	3.38	2.92	37
36	6.09	5.92	3.27	2.8	36
35	5.98	5.79	3.16	2.68	35
34	5.87	5.66	3.05	2.56	34
33	5.76	5.53	2.94	2.44	33
32	5.65	5.4	2.83	2.32	32
31	5.54	5.27	2.72	2.2	31
30	5.43	5.14	2.61	2.08	30
29	5.32	5.01	2.5	1.96	29
28	5.21	4.88	2.39	1.84	28
27	5.1	4.75	2.28	1.72	27
26	4.99	4.62	2.17	1.6	26
25	4.88	4.49	2.06	1.48	25
24	4.77	4.36	1.95	1.36	24
23	4.66	4.23	1.84	1.24	23
22	4.55	4.1	1.73	1.12	22
21	4.44	3.97	1.62	1	21
20	4.33	3.84	1.51	0.88	20
19	4.22	3.71	1.4	0.76	19
18	4.11	3.58	1.29	0.64	18
17	4	3.45	1.18	0.52	17
16	3.89	3.32	1.07	0.4	16
15	3.78	3.19	0.96	0.28	15
14	3.67	3.06	0.85	0.16	14
13	3.56	2.93	0.74	0.04	13
12	3.45	2.8	0.63	0	12
11	3.34	2.67	0.52	0	11
10	3.23	2.54	0.41	0	10
9	3.12	2.41	0.3	0	9
8	3.01	2.28	0.19	0	8
7	2.9	2.15	0.08	0	7
6	2.79	2.02	0	0	6
5	2.68	1.89	0	0	5
4	2.57	1.76	0	0	4
3	2.46	1.63	0	0	3
2	2.35	1.5	0	0	2
1	2.24	1.37	0	0	1

As the tests installed by the football players obtained by the researcher have to do with the performance of players in the stadium, and constitute the overall elements of the real game within the green rectangle is a general ability of the football player must be available in equal proportions in the game during the game of basic skills and this It contains tests tailored to complex skills and is important for players to play The skills ratios of players must therefore be of the highest level to help raise and develop football requirements.

So scoring is one of the most important abilities of the players of the ball and the result and the winning show through the skill of scoring and playing without a goal is a futile game of what the players possessed of basic skills without skill scoring and the process of controlling the ball on the necessary for other

movements such as rolling or handling or scoring followed by skill Handling is one of the skills that is an indispensable skill as it is the skill most used during the game and then the skill of rolling The nature of the football player requires him to do many movements with the ball in different directions during the game and that most of these movements are similar P is fast and surprising and must master the skill of rolling.

Conclusions

In light of the research results, the researcher reached the following conclusions

- The results of the composite skills tests have been shown to be valid for the tests.
- Standards (standard modified by sequence) have been determined for tests.

Endorsement

Through the conclusions of the researcher, it may come:

- Pay attention to the skills compounded by coaches of national centers for the care of sports talent in Iraq during their training units because of their great importance in the game of football.
- Conducting periodic tests by trainers of national centers for the care of football sports in Iraq in order to recognize the adequacy of the complex skills of their players.
- Pay attention to the results of the complex skills tests for this study for the purpose of benefiting and guidance when conducting tests for the national centers for the care of sports talent for football in Iraq in the future.
- Adoption of the criteria reached through the use of standard tables developed by the researcher for the final test vocabulary in the assessment process of football players ages (15-16) years.
- re-study and the same variables to other areas of the country.

Conduct a similar study on different age groups of talented.

References

Hassan HA. 2018. The design and standardization of battery test to measure some of the basic skills of football for the players of the Premier League. Baghdad: University of Baghdad College of Physical Education and Sports Sciences PhD thesis.

Karim SM. 2003. Design of complex technical tests as part of test battery for young football players in Erbil City. Erbil.

Obaidat TO, others T. 1988. Scientific Research. Jordan: Dar Al-Fikr Publishing and Distribution Ꞁp. 154

Al-Bahi F. 1978. Psychology and measuring the human mind (Vol. Edition 3ed). Cairo: Arab Thought House Ꞁp. 127 University Salahuddin Faculty of Physical Education PhD thesis.

Meyers CR. 1974. Measurement in Physical Education (Vol. 2ed Edition). USA Ꞁp. 33 - 34.

Appendix

Specification for composite skills tests

1- Test Name

Handling the face of a colleague and then scoring a goal against a divider:

Objective of the test

- Measuring the speed and accuracy of handling and scoring

Used equipment's

- Whistle
- Stopwatch
- Football
- Tape measure
- Target divider

Performance Method

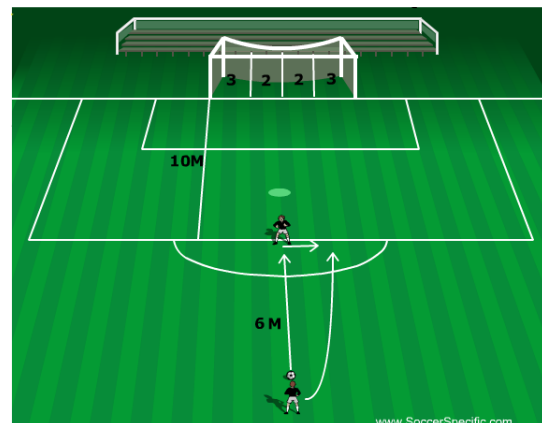
- When the whistle is heard, the player will take the ball from a distance of (6) m towards the colleague to bring it back to the left of the player and then the goal of the goal after 10 meters.

Number of attempts

- Each laboratory is given only two attempts and is considered the best attempt.

Registration method

The score is scored three points for successful handling and zero for the failed handling. The scoring is calculated by the number of casualties entering the squares. Three scores are recorded for square (3) and 2 are given to square (2) with the time from the moment the whistle is heard until the ball enters the goal.



Form 1. The test shows the handling of a colleague and then the scoring in front of a divided goal.

2- Test Name

Roll (6 m) and then handle a small target

Objective of the test

- Measuring the speed and accuracy of rolling and handling

Used equipment's

- Whistle
- Stopwatch
- Football
- Tape measure
- A small goal
- (6) Characterization

Performance Method

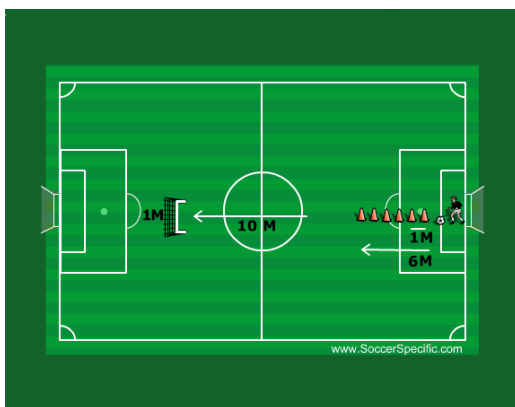
- The player stands with the ball behind the starting line and when the start signal is given, the ball runs between the Figs so that the distance between each person and the last 1 m and then handling a small goal in a horizontal direction on the right hand at 10 meters.

Number of attempts

- Each laboratory is given only two attempts and is considered the best attempt

Registration method

- Three points are scored for successful rolling and one score is deducted if one of the cards is dropped. Three scores are considered for successful handling and zero for the failed handling with the time calculation from the moment the whistle is heard until the ball enters the goal.



Form 2. Demonstrates the rolling test (6 m) and handling with a sm.

3- Test Name

Putting down the ball and handling the mate then scoring towards the goal of the divider.

Objective of the test

- Measuring the speed and accuracy of extinguishing, handling and scoring.

Used equipments

- whistle
- Stopwatch
- Football
- tape measure
- Target divider

Performance Method

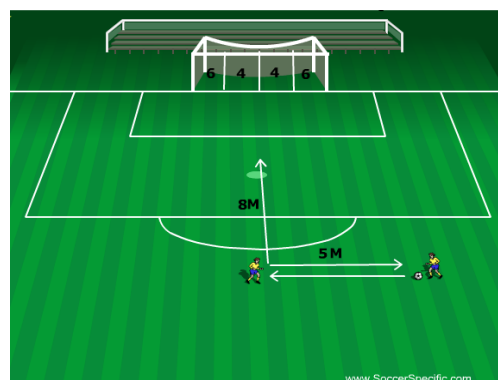
- The player stands in an area designated for the quarantine and then sends the ball of the ball by the colleague from the right at 5 m to be put down and the handling of the colleague is 5 m on the right hand to the colleague to return the player and then the correction on the goal after 8 m.

Number of attempts

- Each laboratory is given only two attempts and is considered the best attempt

Registration method

Three score points are scored for the successful elimination and zero for the failed suppression. Three scores for the successful handling and zero for the failed handling are counted. The scoring is calculated by the number of injuries entering the squares. Three scores for box (6) are given and two are given to square (4) Whistle to the moment the ball enters the goal.



Form 3. The test shows that the ball is put down and handled for the mate and then scored towards the goal of the divider.

4- Test Name

Put the ball down and then roll the ball between the characters Zkzak and then scoring to a goal divided.

Objective of the test

- Measuring the speed and accuracy of putting, rolling and scoring

Used equipments:

- whistle
- Stopwatch
- Football
- tape measure
- (6) Characterization
- Target divider

Performance Method

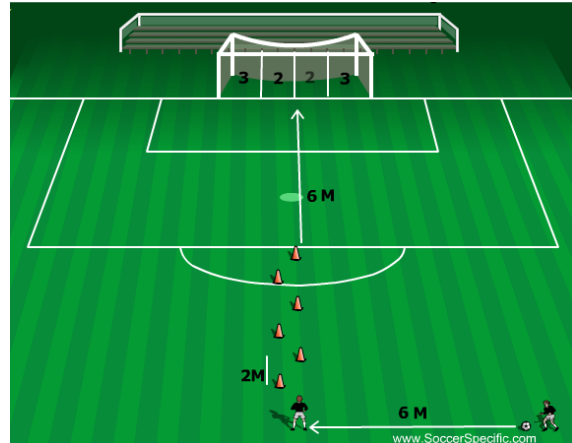
- The player stands in an area designated for the quarantine and then sends the ball of the ball from the right at 6 m to be put down and then roll between (6) Zakkzak characters to be the distance between the person and the last 2 m and then scoring to the team on a goal divided by 6 m.

Number of attempts

- Each laboratory is given only two attempts and is considered the best attempt.

Registration method

Three score points are scored for the successful elimination and zero for the failed quill. Three grades are calculated for the successful rolling and one score is deducted if one of the characters is dropped. The score is scored three points for the square (3) and two degrees are given to square 2 with the time from the moment the whistle is heard until the ball enters the ball to the goal.



Form 4. Demonstrate the test of putting down the ball and then roll the ball between the characters Zkzak and then scoring to the goal of a divider.