

# Atelier: Mathematics in English

## Part 2: Introduction to Statistics

### 1. How can we evaluate (.....) a player's performance ?

Search :

Correction :

### 2. Let's do it :

Collect the datas (.....) of the following extract (.....) of the game.

### 3. Analyse.

The following table represents the data of the whole game (.....).

<b>San Antonio Spurs</b>	<b>Point</b>	<b>Field Goal Made (FGM)</b>	<b>Field Goal Attempt (FGA)</b>
<b>Tony Parker</b>	<b>19</b>	<b>6</b>	<b>23</b>
<b>Tim Duncan</b>	<b>30</b>	<b>13</b>	<b>21</b>

<b>Miami Heat</b>	<b>Point</b>	<b>Field Goal Made (FGM)</b>	<b>Field Goal Attempt (FGA)</b>
<b>Dwayne Wade</b>	<b>14</b>	<b>6</b>	<b>15</b>
<b>Lebron James</b>	<b>32</b>	<b>11</b>	<b>26</b>

1) Are this datas and the minutes played proportionnal? (A NBA game last 48 minutes)

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2) What do you think about eachplayer's performance ?

Tony Parker :

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Tim Duncan :

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Dwayne Wade :

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Lebron James :

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## 4) Official Method.

Statistics in basketball are used to evaluate a player or a team's performance.

The official method is to store (.....) the data (.....) of a basketball game in a table (.....), we call it a **BOX-SCORE**.

Here is the Box-scores of our NBA game.

San Antonio Spurs														Miami Heat															
STARTERS	MIN	FGM-A	3PM-A	FTM-A	OREB	DREB	REB	AST	STL	BLK	TO	PF	+/-	PTS	STARTERS	MIN	FGM-A	3PM-A	FTM-A	OREB	DREB	REB	AST	STL	BLK	TO	PF	+/-	PTS
Tim Duncan, PF	44	13-21	0-0	4-5	5	12	17	0	1	0	2	2	+16	30	Mike Miller, SF	30	3-4	2-2	0-0	1	6	7	2	0	1	0	5	+15	8
Kawhi Leonard, SF	46	9-14	1-3	3-4	2	9	11	0	3	0	0	3	+11	22	LeBron James, SF	50	11-26	1-5	9-12	4	6	10	11	3	1	6	3	-1	32
Tony Parker, PG	43	6-23	1-3	6-7	1	2	3	8	2	0	0	1	+8	19	Chris Bosh, C	39	5-12	0-0	0-1	3	8	11	2	3	2	1	0	-3	10
Manu Ginobili, SG	35	2-5	1-3	4-6	1	3	4	3	1	0	8	4	-21	9	Mario Chalmers, PG	43	7-11	4-5	2-2	0	4	4	2	0	0	3	2	+13	20
Danny Green, SG	41	1-7	1-5	0-0	2	2	4	0	1	2	1	4	-12	3	Dwyane Wade, SG	37	6-15	0-0	2-2	2	2	4	4	0	2	3	4	-15	14
<b>BENCH</b>	<b>MIN</b>	<b>FGM-A</b>	<b>3PM-A</b>	<b>FTM-A</b>	<b>OREB</b>	<b>DREB</b>	<b>REB</b>	<b>AST</b>	<b>STL</b>	<b>BLK</b>	<b>TO</b>	<b>PF</b>	<b>+/-</b>	<b>PTS</b>	<b>BENCH</b>	<b>MIN</b>	<b>FGM-A</b>	<b>3PM-A</b>	<b>FTM-A</b>	<b>OREB</b>	<b>DREB</b>	<b>REB</b>	<b>AST</b>	<b>STL</b>	<b>BLK</b>	<b>TO</b>	<b>PF</b>	<b>+/-</b>	<b>PTS</b>
Matt Bonner, PF	0	0-0	0-0	0-0	0	0	0	0	0	0	0	0	0	0	Chris Andersen, PF	14	0-1	0-0	1-2	1	3	4	0	3	0	0	4	+4	1
Boris Diaw, C	23	2-6	0-1	3-4	1	3	4	2	0	0	0	2	+1	7	Shane Battier, SF	13	3-4	3-4	0-0	1	0	1	0	0	0	0	3	-2	9
Tiago Splitter, C	8	2-2	0-0	1-2	0	1	1	0	0	0	1	3	-13	5	Ray Allen, SG	41	3-8	1-3	2-2	0	1	1	2	1	0	2	5	+4	9
Gary Neal, PG	24	2-7	1-3	0-0	0	1	1	0	0	0	1	2	-5	5	Udonis Haslem, PF														
DeJuan Blair, C															Rashard Lewis, PF														
Cory Joseph, PG															James Jones, SF														
Hando de Colo, PG															Joel Anthony, C														
Tracy McGrady, SG															Morris Cole, PG														
<b>TOTALS</b>		<b>FGM-A</b>	<b>3PM-A</b>	<b>FTM-A</b>	<b>OREB</b>	<b>DREB</b>	<b>REB</b>	<b>AST</b>	<b>STL</b>	<b>BLK</b>	<b>TO</b>	<b>PF</b>		<b>PTS</b>	<b>TOTALS</b>		<b>FGM-A</b>	<b>3PM-A</b>	<b>FTM-A</b>	<b>OREB</b>	<b>DREB</b>	<b>REB</b>	<b>AST</b>	<b>STL</b>	<b>BLK</b>	<b>TO</b>	<b>PF</b>		<b>PTS</b>

<http://espn.go.com/nba/boxscore?gameId=400467338>

## 1) Vocabulary

## 2) Complete the last part of the two box scores

### 3) Diagram

We can also evaluate a team's performance.

Use the box score to complete the following diagram.



**What do you think about each team's performance ?**

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