

ACTIVITY 14: CHICAGO WHITE SOX®

New Skills Reinforced:

In this activity, you will practice how to:

1. divide numbers in a formula.
2. increase a cell's decimal places.
3. use the SUM function.

Activity Overview:

Major League Baseball® (MLB®) is the highest level of play in professional baseball in the world. Major League Baseball® refers to the entity that operates North America's two top leagues, the National League® (NL®) and the American League® (AL®). The Major League® season generally runs from early April through the end of October. There are 30 teams in the 2 leagues: 16 in the National League® and 14 in the American League®.

When the regular season ends, eight teams enter the post-season playoffs. In 2005, the Chicago White Sox® were the World Champions. The following activity illustrates how spreadsheets can be used to list and compute baseball statistics.

Instructions:

1. Create a NEW spreadsheet.

Note: Unless otherwise stated, the font should be set to Arial, the font size to 10 point.

2. Type the data as shown.
3. Format the width of column A to 18.0 and left align.
4. Bold cell A2 and change the font size to 14 point.
5. Bold rows 4, 23, 26, and 41.
6. Underline rows 4 and 26.
7. Center align columns B – K.

NEW SKILL

8. Enter the formula for the AVG (Batting Average) for the first player as follows:

AVG=HITS/AB (**Note:** AB (At Bats) -> In cell F6, type =E6/D6)

9. Use the AutoFill feature to copy the Batting Averages (AVG) formula down in column F for the remaining players.

NEW SKILL

10. Format cells F6 – F23 as numbers displaying 3 decimal places.

11. Enter the formula for the E.R.A. (Earned Run Average) for the first pitcher as follows:

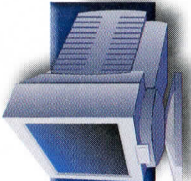
E.R.A.=Runs/Innings*9 -> In cell G28, type =F28/E28*9

12. Use the AutoFill feature to copy the Earned Run Averages (E.R.A.) formula down in column G for the remaining pitchers.

13. Format cells G28 – G41 as numbers displaying 2 decimal places.

NEW SKILL

14. Use the SUM function to compute the TOTALS for all columns with the exception of the AVG and E.R.A. columns. *These columns require a different formula (provided in the next step) since you cannot sum averages.*
 - a. In cell C23, type **=SUM(C6:C22)**
 - b. Use the AutoFill feature to copy this formula to cells D23 – K23 (**Note:** cell F23's formula will be changed in the next step).
 - c. In cell B41, type **=SUM(B28:B40)**
 - d. Use the AutoFill feature to copy this formula to cells C41 – I41 (**Note:** cell G41's formula will be changed in the next step).
15. Compute the totals of the AVG and E.R.A. columns as follows:
 - a. Total AVG -> In cell F23, type **=E23/D23**
 - b. Total E.R.A. -> In cell G41, type **=F41/E41*9**
16. Display formulas in your spreadsheet by using <CTRL> + ` to check for accuracy.
17. Carefully proofread your work for accuracy.
18. Save the spreadsheet as CHICAGO WHITE SOX.
19. Analyze the changes made to the data in the spreadsheet.
20. Set the Print Area to include all cells containing data in the spreadsheet.
21. Print Preview and adjust the Page Setup so that the spreadsheet fits on one page. Set the page orientation to landscape and the page margins to .50 inches.
22. Print a copy of the spreadsheet if required by your instructor.



ACTIVITY 14: CHICAGO WHITE SOX® DATA SPREADSHEET

	A	B	C	D	E	F	G	H	I	J	K
1	Activity 14 Student Name										
2	CHICAGO WHITE SOX WORLD SERIES CHAMPIONS 2005										
3											
4	PLAYER'S NAME	POS	GAMES	AB	HITS	AVG	RUNS	2B	3B	HR	RBI
5											
6	Mark Buehrle	OF	157	578	156		77	30	5	13	69
7	Paul Konerko	1B	158	575	163		98	24	0	40	100
8	Jermaine Dye	OF	145	529	145		74	29	2	31	86
9	Tadahito Iguchi	2B	135	511	142		74	25	6	15	71
10	Scott Podsednick	OF	129	507	147		80	28	1	0	25
11	Carl Everett	DH	135	490	123		58	17	2	23	87
12	Juan Uribe	SS	146	481	121		58	23	3	16	71
13	A.J. Pierzynski	C	128	460	118		61	21	0	18	56
14	Joe Crede	3B	132	432	109		54	21	0	22	62
15	Paul Ozuna	2B	70	203	56		27	7	2	0	11
16	Timo Perez	OF	76	179	39		13	8	0	2	15
17	Chris Widger	C	45	141	34		18	8	0	4	11
18	Willie Harris	2B	56	121	31		17	2	1	1	8
19	Frank Thomas	DH	34	105	23		19	3	0	12	26
20	Geoff Blum	3B	31	95	19		6	2	1	1	3
21	Ross Gload	1B	28	42	7		2	2	0	0	5
22	Brian Anderson	OF	13	34	6		3	1	0	2	3
23	TOTALS										
24											
25											
26		WINS	LOSSES	GAMES	INNINGS	RUNS	E.R.A.	K	SAVES		
27											
28	Aaron Rowand	16	8	33	237	99		149	0		
29	Freddy Garcia	14	8	33	228	102		146	0		
30	Jon Garland	18	10	32	221	93		115	0		
31	Jose Contreras	15	7	32	205	91		154	0		
32	Orlando Hernandez	9	9	24	128	77		91	1		
33	Luis Vizcaino	6	5	65	70	30		43	0		
34	Cliff Politte	7	1	68	67	15		57	1		
35	Brandon McCarthy	3	2	12	67	30		48	0		
36	Neal Cotts	4	0	69	60	15		58	0		
37	Dustin Hermanson	2	4	57	57	17		33	34		
38	Damaso Damarte	3	4	66	45	21		54	4		
39	Bobby Jenks	1	1	32	39	15		50	6		
40	Shingo Takatsu	1	2	31	29	19		32	8		
41	TOTALS										

Source: http://chicago.whitesox.mlb.com/NASApp/mlb/index.jsp?c_id=cws