

# 14

## San Francisco Giants®

INPUT DATA

A	B	C	D	E	F	G	H	I	J	K	
1	Activity 14 Student Name										
2	SAN FRANCISCO GIANTS - WORLD SERIES CHAMPIONS 2010										
3											
4	PLAYER'S NAME	POS	GAMES	AB	HITS	AVG	RUNS	2B	3B	HR	RBI
6	Aubrey Huff	1B	157	569	165		100	35	5	26	86
7	Pablo Sandoval	3B	152	563	151		61	34	3	13	63
8	Cody Ross	OF	153	525	141		71	28	3	14	65
9	Juan Uribe	SS	148	521	129		64	24	2	24	85
10	Andres Torres	OF	139	507	136		84	43	8	16	63
11	Freddy Sanchez	2B	111	431	126		55	22	1	7	47
12	Buster Posey	C	108	406	124		58	23	2	18	67
13	Aaron Rowand	OF	105	331	76		42	12	2	11	34
14	Pat Burrell	OF	96	289	77		41	16	0	18	51
15	Edgar Renteria	SS	72	243	67		26	11	2	3	22
16	Mike Fontenot	2B	103	240	68		24	13	3	1	25
17	Nate Schierholz	OF	137	227	55		34	13	3	3	17
18	Travis Ishikawa	1B	116	158	42		18	11	0	3	22
19	Jose Guillen	OF	42	128	34		9	5	0	3	15
20	Eli Whiteside	C	56	126	30		19	6	1	4	10
21	Mark DeRosa	OF	26	93	18		9	3	0	1	10
22	Tim Lincecum	P	33	67	7		2	0	0	0	5
23	TOTALS										
24											
25											
26											
27											
		WINS	LOSSES	GAMES	INNINGS	RUNS	ERA	SO	SAVES		
28	Matt Cain	13	11	33	223.1	84		177	0		
29	Tim Lincecum	16	10	33	212.1	84		231	0		
30	Barry Zito	9	14	34	199.1	97		150	0		
31	Jonathan Sanchez	13	9	34	193.1	74		205	0		
32	Madison Bumgarner	7	6	18	111	40		86	0		
33	Brian Wilson	3	3	70	74.2	16		93	48		
34	Sergio Romo	5	3	68	62	16		70	0		
35	Todd Wellemeyer	3	5	13	58.2	37		41	0		
36	Javier Lopez	4	2	77	57.2	17		38	0		
37	Santiago Casilla	7	2	52	55.1	14		56	2		
38	Guillermo Mota	1	3	56	54	29		38	1		
39	Jeremy Affeldt	4	3	53	50	25		44	4		
40	Denny Bautista	2	0	31	33.2	14		44	0		
41	TOTALS										

Source: <http://sanfrancisco.giants.mlb.com>

# 14

## San Francisco Giants®

### New Skills

1. Divide numbers in a formula.
2. Use the SUM function.

### Activity Overview

Major League Baseball® is the highest level of play in professional baseball. 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 two leagues: 16 in the National League® and 14 in the American League®.

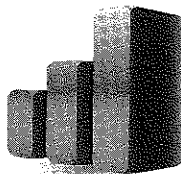
When the regular season ends, eight teams enter the post-season playoffs. In 2010, the San Francisco Giants® won the World Series with a 3-1 victory over the Texas Rangers®.

The following activity illustrates how spreadsheets can be used to list and compute baseball statistics.

### Instructions

1. Create a NEW spreadsheet.
- ★ *Unless otherwise stated, the font should be 10 point Arial.*
2. Type the data as shown.
3. Format the width of column A to 18.0 and left align.
4. Format the width of columns B – K to 10.0 and center align.
5. Bold cell A2 and change the font size to 14 point.
6. Bold rows 4, 23, 26, and 41.
7. Underline rows 4 and 26.
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.
10. Format cells F6 – F23 as numbers displaying 3 decimal places.
11. Enter the formula for the ERA. (Earned Run Average) for the first pitcher as follows:  $ERA=Runs/Innings*9$  → In cell G28, type =F28/E28\*9
12. Use the AutoFill feature to copy the Earned Run Averages (ERA) formula down in column G for the remaining pitchers.
13. Format cells G28 – G41 as numbers displaying 2 decimal places.

NEW SKILL



## San Francisco Giants®

## NEW SKILL

- ▶ **14.** Use the SUM function to compute the TOTALS for all columns, with the exception of the AVG and ERA 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 ERA columns as follows:
  - a. Total AVG → In cell F23, type =E23/D23
  - b. Total ERA → In cell G41, type =F41/E41\*9
- 16.** Display formulas in your spreadsheet by using <CTRL> plus ` to check for accuracy.
- 17.** Carefully proofread your work for accuracy.
- 18.** Save the spreadsheet as SAN FRANCISCO GIANTS.
- 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 .5 inches.
- 22.** Print a copy of the spreadsheet if required by your instructor.