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Fantasy Baseball Project





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Statistical Abbreviation Reference Sheet

H 🡪 Total Hits

1B 🡪 Singles

2B 🡪 Doubles

3B 🡪 Triples

HR 🡪 Homeruns

BB 🡪 Walks

SO 🡪 Strikeouts

PA 🡪 Plate Appearances

AB 🡪 At-Bats

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PLAYER NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PLAYER POSITION: \_\_\_\_\_\_\_\_\_\_\_\_

STEP 1—To calculate PLATE APPEARANCES (PA) use player card and formula:

 AB + BB = PA

 ( ) + ( ) = PA

STEP 2—To calculate SINGLES (1B), use player card and the formula:

 H – ( 2B + 3B + HR) = 1B

 ( ) – (( ) + ( ) + ( )) = 1B

STEP 3—Now set up 6 proportions and solve for x.

Use a protractor to create a “pie slice” for each statistic on the player’s circle graph (use x as the number of degrees to be graphed in the circle).

Name of Statistic Formula Show Work Here!

Singles

$$\frac{1B}{PA} = \frac{x}{360}$$

Doubles

$$\frac{2B}{PA} = \frac{x}{360}$$

Triples

$$\frac{3B}{PA} = \frac{x}{360}$$

Homeruns

$$\frac{HR}{PA} = \frac{x}{360}$$

Walks

$$\frac{BB}{PA} = \frac{x}{360}$$

Strikeouts

$$\frac{SO}{PA} = \frac{x}{360}$$

![C:\Users\ghammond\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\GDT3XTI6\MP900305788[1].jpg]()![C:\Users\ghammond\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\GDT3XTI6\MP900305788[1].jpg]()![C:\Users\ghammond\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\GDT3XTI6\MP900305788[1].jpg]()![C:\Users\ghammond\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\GDT3XTI6\MP900305788[1].jpg]()Baseball Game Rules

1. Decide who will spin first and second in each ROUND of play (must remain constant throughout the game).
2. Decide on the order of your 9 player batting lineup (once you decide on the order of your players, it must remain the same throughout the game—NO LINEUP CHANGES!)
3. You must keep track of the results of each of YOUR players’ plate appearances during the game.

During your turn, if your player spins a:

SINGLE 🡪 Place a chip on first base (all other chips on the board advance TWO SPACE).

DOUBLE🡪 Place a chip on second base (all other chips on the board advance TWO SPACES).

TRIPLE🡪 Place a chip on third base (all other chips on the board SCORE ONE RUN EACH).

HOMERUN🡪Tally ONE RUN (all other chips on the board SCORE ONE RUN EACH).

WALK🡪 Place a chip on first base (all other chips on the board advance ONE SPACE ONLY if a chip is on first / or chips are on first & second / or chips are on first & second & third).

OUT🡪 Tally ONE OUT (all other chips on the board advance ONE space).

STRIKEOUT🡪 Tally ONE OUT

\*\*\*Remember: once you tally THREE OUTS, your turn ends. You and your opponent each get 9 turns (of three outs each) to score as many runs as you can. The person with the most runs after 9 turns wins the game!

Baseball Game Score Sheet

|  |  |  |  |  |  |  |  |  |  |
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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ vs. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9th

8th

7th

5th

4th

6th

3rd

2nd

1st

PLAYER NAME

Final Score:

MY Team: \_\_\_\_\_\_\_

Opponent: \_\_\_\_\_\_\_

Fantasy Baseball Rubric

The Fantasy Baseball Portfolio is due Friday, May 24th. The following is the grading criterion for the project. All materials related to project should be arranged in the order listed below.

1. \_\_\_\_\_\_ (5 points). Fantasy Baseball Coversheet with your name written on it.
2. \_\_\_\_\_\_ (18 points). Nine *undamaged* baseball cards in protective sleeve sheet.
3. \_\_\_\_\_\_ (45 points). Nine circle graphs (labeled, colored, MATHEMATICALLY

 ACCURATE, and inside page protectors).

1. \_\_\_\_\_\_ (45 points). Nine equation/proportion worksheets (showing the completed

 proportional equalities).

1. \_\_\_\_\_\_ (20 points). Score sheets for AT LEAST TWO simulated baseball games.
2. \_\_\_\_\_\_ (17 points). Probability worksheet completed (1 point each for front side questions, 10 points for the essay question on backside).
3. \_\_\_\_\_\_ (10 points). Project exit survey.

TOTAL \_\_\_\_\_\_\_\_\_\_\_\_ (160 points)

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fantasy Baseball Project Exit Survey

1. Did this project help you with your understanding of the math concepts used (using protractors, creating & interpreting circle graphs, setting up and solving proportional equalities, interpreting data, setting up and solving algebraic equations, interpreting probability of events)? If so, explain how. If not, explain how this project could be changed to help your understanding of these concepts.

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1. Did this project help with your understanding of how mathematics are used in real-world job settings? If so, explain how. If not, explain how this project could be changed to help your understanding of how mathematics are used in real-world jobs.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Give an honest opinion of this project. What did you like? What did you not like? Do you have any suggestions for how this project can be improved? If so, explain.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Player Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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My Lineup

Catcher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

First Base: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Second Base: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Third Base: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Shortstop: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Outfield: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Outfield: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Outfield: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*\*Designated Hitter: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Probability

Pick a player from your team. Using the equation worksheet for that player, convert the $\frac{degrees}{360}$ fractions to percents and find the probability of each event happening.

1. What is the probability your player will spin a single or a walk?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is the probability your player will spin an extra-base hit (double or triple or homerun)?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is the probability your player will spin a strikeout in his first at-bat and a strikeout in his next at-bat?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is the probability that your player will spin a single in his first at-bat and a double in his next at bat?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is the probability your player will spin a strikeout or other out?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is the probability that on any given at-bat your player will spin a single or a double or a triple or a homerun?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Compare your answer to #6 to the statistic on the back of your player’s card called “AVG”. What do you notice?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The circle graphs in this project are a visual representation of each player’s unique **On-Base Percentage**. With the understanding that a player’s On-Base Percentage is expressed as  how would the circle graphs look different (or would they look different) if the circle graphs were instead visual displays of each player’s Batting Average? **Batting Average** is calculated as . If you were the general manager of a baseball team, which statistic (On-Base Percentage or Batting Average) would you use to judge the value of baseball players and why?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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***TOPPS 2013 SERIES 1***

Bryce Harper

Derek Jeter

Hunter Pence

Yadier Molina

Carlos Gonzalez

Ryan Braun

Dee Gordon

Adam Jones

A.J. Pierzynski

Paul Konerko

Dustin Pedroia

Andre Ethier

Shin-Soo Choo

Joey Votto

Kevin Youkilis

Jemile Weeks

Mark Teixeira

Lucas Duda

Chase Utley\*

Mike Trout

Prince Fielder

Adrian Beltre

Jose Tabata

Anthony Rizzo

Howie Kendrick

Colby Rasmus

Brandon Inge

Todd Frazier

Brandon Crawford

Geraldo Parra

Ryan Zimmerman

Jamey Carroll

Clint Barnes

Mike Moustakas

Danny Espinosa

Jed Lowrie

Drew Stubbs

Freddie Freeman

Kendrys Morales

Justin Upton

Starlin Castro

Brian McCann

Ian Desmond

Chris Davis

Delmon Young

Andrew McCutchen

Rickie Weeks

Dan Uggla

Giancarlo Stanton

Buster Posey

Eric Hosmer

Michael Morse

Carlos Santana

Kyle Seager

Nyjer Morgan

Casey Kotchman

Alex Gordon

Ryan Theriot

Jimmy Rollins

Kurt Suzuki

David DeJesus

Alex Rodriguez

Curtis Gradnerson

Ben Zobrist

John Jay

Jose Altuve

Adrian Gonzalez

Alex Rios

Miguel Cabrera

Kyle Seager

Robert Andino

Justin Maxwell

Casey Kotchman

Jeff Keppinger

Jordan Pacheco

Daniel Descalso

Chris Heisey

Zack Cozart

Alex Gordon

Ryan Theriot

Jimmy Rollins

Matt Holliday

Kurt Suzuki

David DeJesus

Alex Rodriguez

Gordon Beckham

Josh Willingham

Ben Zobrist

Jason Heyward

Yonder Alonso

Jon Jay

Will Venable

Jose Altuve

Adrian Gonzalez

Jacoby Ellsbury

Matt Kemp

Tyler Colvin

Albert Pujols

Jason Kipnis

Dexter Fowler

Miguel Montero

Brendan Ryan

Russell Martin

Angel Pagan

Michael Saunders

Pablo Sandoval

Darwin Barney

Daniel Murphy

Jarrod Saltalamacchia

Alex Rodriguez

Norichika Aoki

Desmond Jennings

Endy Chavez

Edwin Encarnacion

Rajai Davis

Scott Hariston

A.J. Ellis

Rafael Furcal

Josh Reddick

Brian Bogusevic

Michael Young

Allen Craig

Michael Brantley

Cameron Maybin

Jhonny Peralta

Jayson Werth

Jose Reyes

***TOPPS 2013 SERIES 2***

338 Mike Trout AL ROY

339 Nick Swisher

343 Alex Avila

350 Albert Pujols

351 Asdrubal Cabrera

356 Greg Dobbs

362 Yoenis Cespedes

364 Carlos Pena

367 Carlos Ruiz

368 Chris Young

369 Bryce Harper NL

373 Derek Jeter

374 Miguel Cabrera AL MVP

375 Wilin Rosario

367 Juan Pierre Record CHASERS

377 J.D. Martinez

385 Brandon Belt

386 Brandon Phillips

393 Andres Torres

395 Alexei Ramirez

397 Mike Aviles

399 Shane Victorino

400 David Wright

407 Juan Pierre

408 Coco Crisp

412 Everth Cabrera

417 Logan Forsythe

427 Chris Nelson

436 Elvis Andrus

437 Dayan Viciedo

440 Ian Kinsler

441 Jose Bautista

449 Michael Cuddyer

450 Jay Bruce

452 Raul Ibanez

454 Paul Goldschmidt

455 Buster Posey NL MVP

456 Pablo Sandoval

460 Ryan Doumit

465 Palacio Polanco

470 Jeff Francoeur

472 John Mayberry

476 John Buck

479 Kelly Johnson

485 Ruben Tejada

486 Jason Kubel

487 Hanley Ramirez

488 Erick Aybar

489 Cody Ross

494 Albert Callaspo

498 Martin Prado

499 Billy Butler

504 Michael Bourn

509 Brennan Boesch

512 Justin Smoak

516 Omar Infante

517 Pedro Alvarez

525 J.P. Arencibia

533 Carlos Beltran

536 Mike Trout AL Defensive POY

537 Neil Walker

540 Michael Bourn NL Defensive POY

545 Alex Presley

550 Matt Joyce

557 Adam Lind

560 Yunel Murphy

565 Torii Hunter

567 Alfonso Soriano Record CHASERS

569 Ryan Ludwick

571 Melley Cabrera

574 Corey Hart

575 Justin Morneau

579 Adam La Roche

582 Seth Smith

583 Alejandro De Aza

584 Alfonso Soriano

592 Nick Markauis

593 James Loney

595 David Ortiz

597 Marco Scutaro

605 Aramis Ramirez

606 Mark Trumbo

612 Robinson Lano

614 B.J. Upton

615 Mark Ellis

619 Carlos Gomez

622 Alcides Escobar

629 Trevor Plouffe

630 Andy Dirks

633 Victor Martinez

637 Ben Revere

639 Josh Hamilton

642 Austin Jackson

647 Adam Dunn

649 Ryan Hanigan

650 Nelson Cruz

652 Jonathan Lucroy

653 Chase Headley

658 David Freese

659 Mike Napoli

660 Miguel Cabrera