

Name \_\_\_\_\_

**Hank Aaron Baseball Card Math.** Use the chart below to answer the questions. These are REAL statistics!



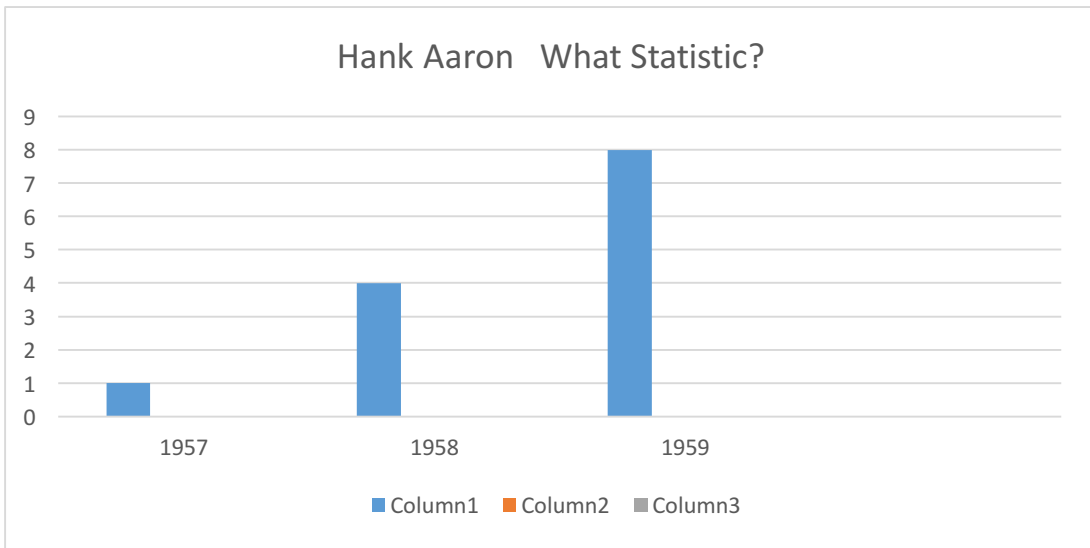
Year	At-Bats	Hits	Doubles	Triples	Home Runs	RBI's	Runs Scored	Walks	Stolen Bases
1957	615	198	27	6	44	132	118	57	1
1958	601	196	34	4	30	95	109	59	4
1959	629	223	46	7	39	123	116	51	8

Questions:

1. How many total at-bats did Hank Aaron have in the three years combined?
2. How many SINGLES did Hank Aaron have in 1958? Singles are all of the hits that ARE NOT home runs, doubles, or triples.

3. Did Hank Aaron have more RBI's or runs scored in the three years shown above? How many more?

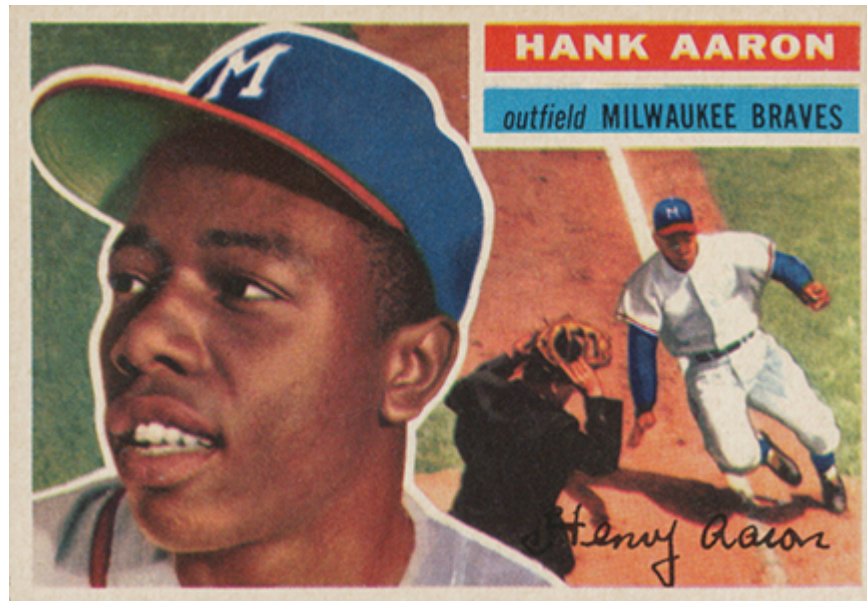
4. What does the graph below show? \_\_\_\_\_



5. Which statistics seemed to decline in 1958 from 1957, but then increased in 1959 from 1958?

## ANSWERS

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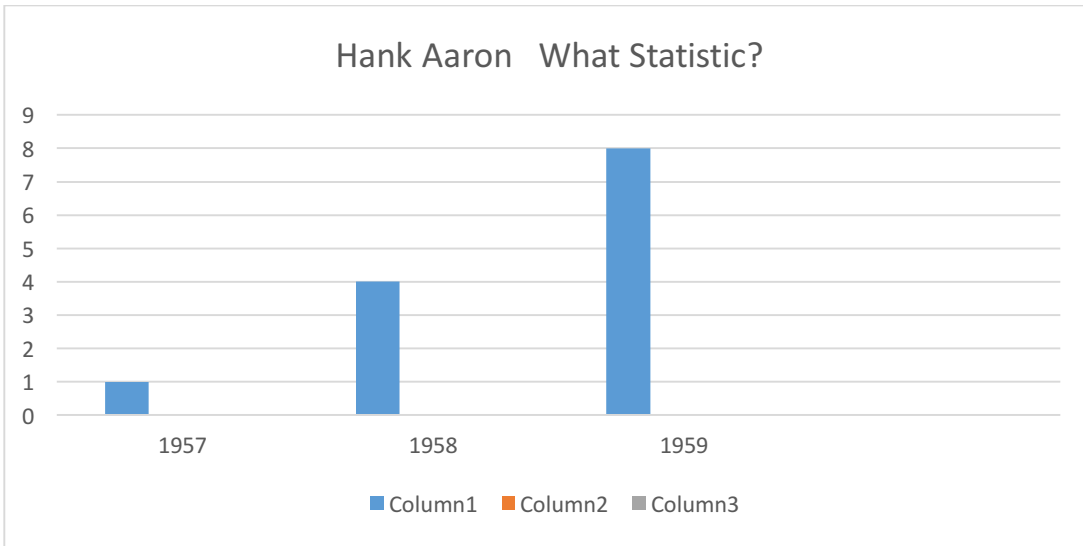
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2. How many SINGLES did Hank Aaron have in 1958? Singles are all of the hits that ARE NOT home runs, doubles, or triples.

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3. Did Hank Aaron have more RBI's or runs scored in the three years show above? How many more? RBI's – 7 more

4. What does the graph below show?



### Stolen Bases

5. Which statistics seemed to decline in 1958 from 1957, but then increased in 1959 from 1958?

At bats, hits, triples, home runs, RBI's, runs scored.

Name \_\_\_\_\_

**Roberto Clemente Baseball Card Math – Ordering Decimals for On-Base Percentage** Use the chart below to answer the questions. These are REAL statistics!



Year	On-Base %	Rank
1963	.356	
1964	.388	
1965	.378	
1966	.360	
1967	.400	
1968	.355	
1969	.411	
1970	.407	
1971	.370	
1972	.357	

The chart above shows the Roberto Clemente's on-base percentage between 1963 and 1972. On-base percentage is the percentage of time a batter gets on base. Use the third column to rank each season. 1<sup>st</sup> should apply to the best on-base percentage in the ten-year period and 10<sup>th</sup> should apply to the worst (greatest to least).

Answers:

<b>Year</b>	<b>On-Base %</b>	<b>Rank</b>
1963	.356	9
1964	.388	4
1965	.378	5
1966	.360	7
1967	.400	3
1968	.355	10
1969	.411	1
1970	.407	2
1971	.370	6
1972	.357	8

**Giancarlo Stanton** – NY Yankees  
Baseball Card Math

Name \_\_\_\_\_

	At-bats	Hits	Doubles	Triples	Home Runs	Runs Batted In	Stolen Bases	On-Base Percentage	Batting Average
2016	470	99	20	1	27	74	0	.326	.240
2017	597	168	32	0	59	132	2	.376	.281

**At-bats** = The number of times a player bats (without getting a walk)

**Hits** = The number of times a player gets a single, double, triple, or home run

**Doubles** = The number of times a player gets a hit and makes it to second base

**Triples** = The number of times a player gets a hit and makes it to third base

**Home Runs** = The number of times a player hits the ball and it goes over the fence (or the number of times a player hits the ball and makes it to home plate).

**Runs Batted in** = The number of times a player makes a play that results in one or more runs being scored.

**Stolen Base** = The number of times the player makes it from first to second base, from second to third base, or, from third to home plate while the pitcher is pitching.

**On-Base Percentage** = The numerical chance in which a player makes it to a base.

**Batting Average** = The numerical chance in which a player gets a hit. (Hits divided by At-bats)

- In 2017, Giancarlo Stanton had 168 hits. How many of those hits were singles? (Hint: Hits are singles, doubles, triples, and home runs).
- If there was a statistic called “out percentage,” meaning the numerical chance the player would get an out, what would Stanton’s “out percentage” be in 2016? How much higher would it be in 2017?
- A batting average of .300 is considered excellent in major league baseball. Batting average is found by dividing hits by at-bats. In 2017, Stanton’s batting average was .281. How many more hits would he have needed to achieve a .300 batting average?

## Answers

1. In 2017, Giancarlo Stanton had 168 hits. How many of those hits were singles? (Hint: Hits are singles, doubles, triples, and home runs).

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2. If there was a statistic called “out percentage,” meaning the numerical chance the player would get an out, what would Stanton’s “out percentage” be in 2016? How much higher would it be in 2017?

2016: .674 (He was out 67.4% of at-bats)

2017: .624 (He was out 62.4% of at-bats)

3. A batting average of .300 is considered excellent in major league baseball. Batting average is found by dividing hits by at-bats. In 2017, Stanton’s batting average was .281. How many more hits would he have needed to achieve a .300 batting average?

He would have needed 11 more hits ( $179/797 = .2998$  or .300)