## Lesson 13 Boardsheet

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## Review

## 1 ## 2

## 3 ## 4

Last class, we discussed the run value of a play. Write the equation for the run value of a play.

Describe how you would calculate the RE24 for David Ortiz in 2016. Also, interpret this value in a way that's understandable to a general audience.

Is it appropriate to compare David Ortiz's and Jose Altuve's RE24? Explain.

## Value of a home run

1 3332 0.59

2 1534 0.27 3 634 0.11

110 0.02

Let's look at the value of a home run from a runs perspective. First, here is the distribution of home runs by the number of runs scored.

```
library(tidyverse)
library(Lahman)
#recall data2016 contains a line for every play
data2016 <- read_csv("data/data2016.csv")</pre>
#get only home runs
data2016 %>%
 filter(EVENT_CD == 23) -> home_runs
#number and percent of homeruns by runs scored
home_runs %>%
  group_by(RUNS.SCORED) %>%
  summarise(n = n()) \%
 mutate(perc = round(n/sum(n),2))
## # A tibble: 4 x 3
    RUNS.SCORED
##
                     n perc
           <dbl> <int> <dbl>
##
```

Explain why we might want to use the run value approach of Chapter 5 instead of the average runs scored approach above.

Why do the two approaches result in different answers?

1.56

## 1

