Powers

Math

Per. 7

Thurs. 9/13/18

**In Class:**

*The Broken Eggs problem*

* Ask yourself: What do I know? and What do I need to know?
  + If I divide by 7, nothings is left over: MULTIPLE OF 7!
  + If I divide by 2, one is left over: MUST BE ODD
  + If I divide by 3, one is left over.
  + If I divide by 4, one is left over.
  + If I divide by 5, one is left over.
  + If I divide by 6, one is left over.
* Make a list of the relevant facts (conditions) that you need to consider

You could start by creating a list of multiples of 7 (because the answer is divisible evenly by 7)

7, 14, 21, 28, 35, 42, 49, 56, 63, 70, 77, 84, 91, 98, 105, 112, 119, 126, 133, 140…

And then eliminate even numbers.

7, ~~14~~, 21, ~~28,~~ 35, ~~42,~~ 49, ~~56,~~ 63, ~~70,~~ 77, ~~84,~~ 91, ~~98~~, 105, ~~112,~~ 119, ~~126,~~ 133, 1~~40~~…147, 161, 175, 189, 203, 217

**Note**: If you divide a number by 2 and there is one left over, the decimal is .5, if you divide by 3 with one left over the decimal is .33, if you divide by 4, with one left over, the decimal is .25, divide by 5, with one left over, the decimal is .2, divide by 6 with one left over and the decimal is .166

Answer must be a multiple of 7, that is an odd number, that ends in 1