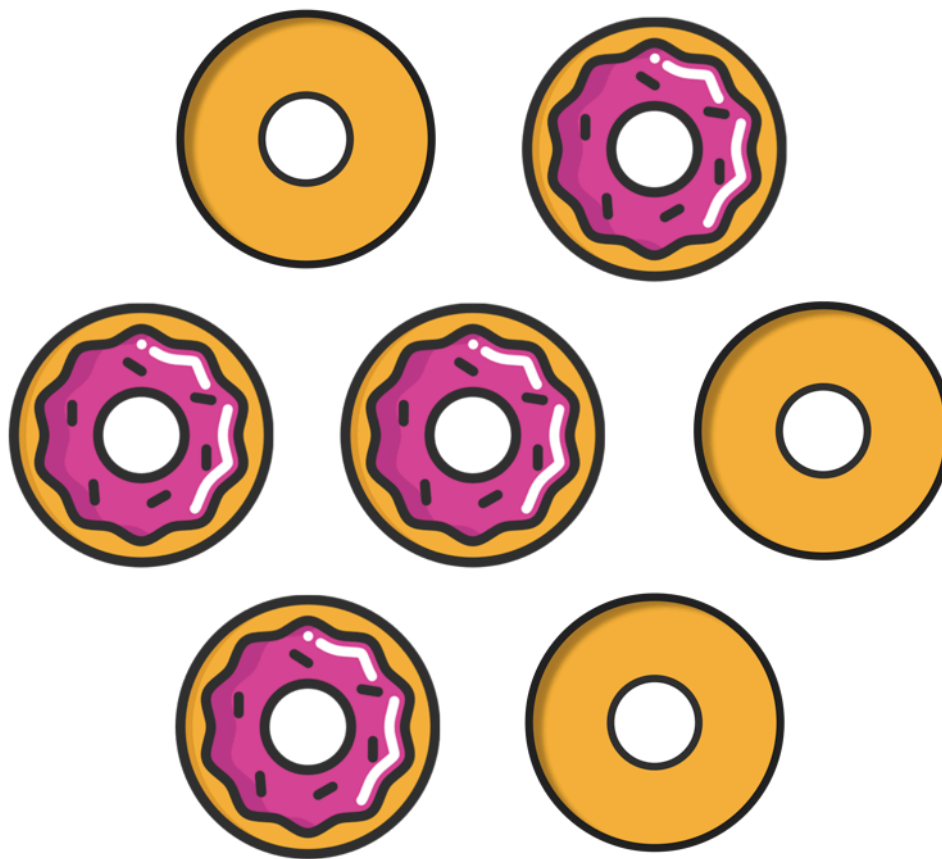Name: _____   Date: _____

Ready for a Challenge?

Directions:

Flippin' Donuts!

There are seven donuts with strawberry icing on one side and no icing on the other side.

Starting with all of the donuts facing icing-side up—all donuts must be turned upside down so that no icing is showing.

If you can only turn over **exactly three donuts at a time**, what is the *smallest* number of moves it will take to turn them all over?

(Hint: Try this one using paper or coins)

3 times

    1.) Flip any three donuts, leaving four icing-side up

    2.) Flip over two more untouched donuts and re-flip one that you turned over last round, leaving three icing-side up

    3.) Flip over the three remaining that are icing-side up