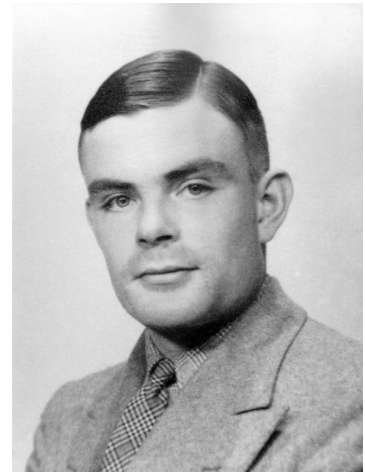***The Imitation Game***
Feb. 18, 2022

Name_____

Today we'll be watching *The Imitation Game* (2014), a film about the mathematician and computer scientist Alan Turing.

Fun fact: Before the events in this movie takes place, Turing invented the basic math for computers (the *Universal Turing Machine*) in order to solve a famous math problem called the *Decision Problem.* This problem basically asks if there's an **algorithm** that can **prove** whether *any* **mathematical theorem** is true or false given a set of **axioms**. The answer, it turns out, is no.

Be sure to: Watch the movie carefully. Answer the questions below. Turn the worksheet in for extra credit!

Alan Turing

1. What project are they working on at Bletchley Park?

    _____
    _____
    _____
    _____
    _____
    _____
    _____
    _____
    _____
    _____
    _____

2. How does Turing find people to work at Bletchley Park with him? Do you think this is a good idea?

    _____
    _____
    _____
    _____
    _____
    _____
    _____
    _____
    _____

Name_____

3. How does Turing and his team end up cracking the Enigma code?

_____

_____

_____

_____

_____

_____

_____

_____

_____

4. Why can't the allies use information from *every* decoded message they find?

_____

_____

_____

_____

_____

_____

_____

_____

_____

5. What did you think of this movie over all?

_____

_____

_____

_____

_____

_____

_____

_____

_____