Proportional Reasoning

Part 1

1. Write out one million in standard form.

2. Write out one billion in standard form.

3. Find the difference between one million and one billion.

Part 2

4. If I were to pay you $1/day, how many days would you have to work to earn $100,000?
   a. What can you do with the value to determine how long you would have to work to get to one million dollars?
   b. What can you do with the value to determine how long you would have to work to get to one billion dollars?

5. If I were to pay you $5/day, how many days would you have to work to earn $100,000?
   a. What can you do with the value to determine how long you would have to work to get to one million dollars?
   b. What can you do with the value to determine how long you would have to work to get to one billion dollars?

6. As of 2020, the average minimum wage in America is $7.25 per hour. If I were to pay you $7.25/day, how many days would you have to work to earn $100,000?
   a. What can you do with the value to determine how long you would have to work to get to one million dollars?
   b. What can you do with the value to determine how long you would have to work to get to one billion dollars?

Part 3

7. The average person works a 40-hour workweek (8 hours/day for 5 days/week). If you were making minimum wage ($7.25 per hour) and assuming you had no bills to pay, how many hours would it take for you to become a billionaire? Feel free to convert your answer into years to best explain how to achieve this goal.