**Washing Dishes** Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_

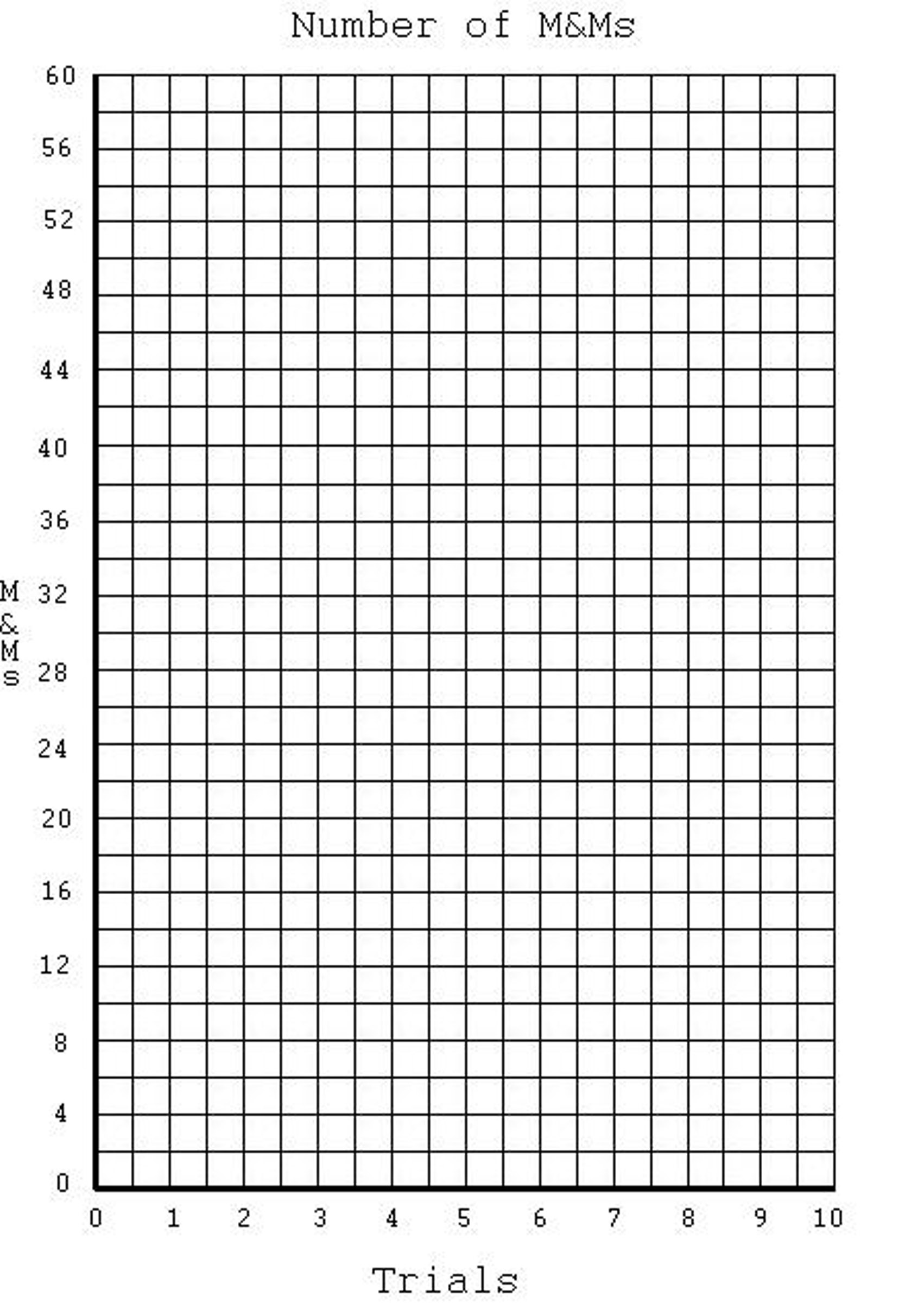
Carl is working Saturdays as a dishwasher at the restaurant “Ticonderoga”. The salary for the job is $7.50 per hour, but waiters at “Ticonderoga” give dishwashers a portion of their tips each hour. Waiters don’t receive many tips when the restaurant first opens but they receive a lot at the end of the night. His boss said he will usually receive $2 Dollars of tips after the first hour of a shift, then $4 Dollars of tips after the second hour, then $6 Dollars, $8 Dollars, and so on the restaurant gets busier.

How much would he expect to get paid during the 3rd hour of a Saturday shift?

Explain how you know:

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Use a table and a graph to display how much he would make **per hour** during the 1st, 2nd, 3rd, 4th, and 5th hours?

What kind of function is the relationship between hours and pay rate? Can you make an equation for it?

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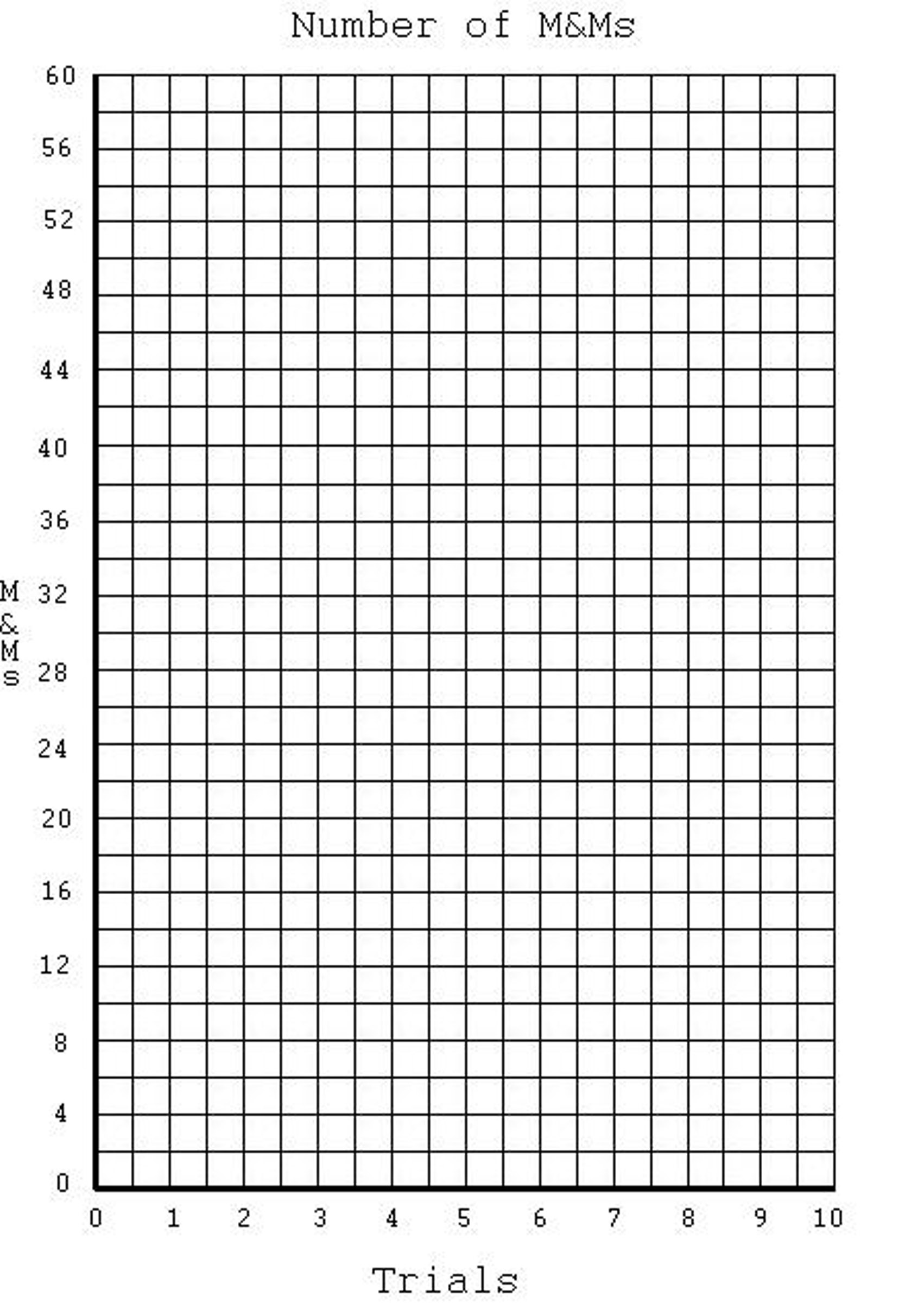
**Washing Dishes Cont’d**

Now it’s Saturday and he is excited to start getting the money he needs to buy chipotle, get his little sister the new Call of Duty game, and buy a new iPad. Unfortunately his boss still hasn’t told him how long he is going to be working. It could be 1 hour or it could be 10 hours. He also has to pay $24 out of his check for his uniform

What would his final pay be if he is sent home after the 3rd hour that he works? Explain how you know.

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Use a table and a graph to display how much **total** he would make for the 1st, 2nd, 3rd, 4th, and 5th hours?

What kind of function is this? Make the function below and explain how you know.

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How many hours do you think he should work in order to buy Chipotle? Call of Duty? An iPad? Explain.

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