Mathematician\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_date\_\_\_\_\_\_\_\_\_\_\_\_\_\_per\_\_\_\_\_\_\_\_\_\_\_

**Kimi and Jordan**

Kimi and Jordan are each working during the summer to earn money in addition to their weekly allowance, and they are saving all their money. Kimi earns $9 an hour at her job, and her allowance is $8 per week. Jordan earns $7.50 an hour, and his allowance is $16 per week.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | h |
|  |  | 18 |  |  |  |  |  |  |
| 8 |  | 26 |  |  |  |  |  |  |

1. Complete the two tables shown below.

Number of hours worked in a week, h

Kimi’s weekly total savings, K

With Allowance:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | h |
| 0 | 7.5 |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |

Complete Number of hours worked in a week, h

Jordan’s weekly total savings, K With Allowance:

3. Write an equation that can be used to calculate the total of Kimi’s allowance and job earnings at the end of one week given the number of hours she works.

4. Write an equation that can be used to calculate the total of Jordan’s allowance and job earnings at the end of one week given the number of hours worked.

2. Use your equation to graph Kimi and Jordans weekly earnings. (on the back)

5. Jordan wonders who will save more money in a week if they both work the same number of hours. Be very specific and refer back to the table AND graph.

**Table: Graph:**