**Linear Relations Lesson #4**

**DUE: Thursday, May 29th**

**Budget Car Rental** charges a **$20 flat fee** at the beginning and then **$0.15 per kilometre**.

What are the two variables?

INDEPENDENT: \_\_\_\_\_\_\_\_\_\_\_\_ DEPENDENT: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
|  |  |
| 0 |  |
| 100 |  |
| 200 |  |
| 300 |  |
| 400 |  |
| 500 |  |
| 600 |  |

How can you tell from the table that the graph will be **linear**? (a straight line)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the **initial charge** for the company? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the **rate of change**? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Discount Car Rental** charges **$40 flat fee** at the beginning and then **$0.10 per kilometre**.

What are the two variables?

INDEPENDENT: \_\_\_\_\_\_\_\_\_\_\_\_\_ DEPENDENT: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
|  |  |
| 0 |  |
| 100 |  |
| 200 |  |
| 300 |  |
| 400 |  |
| 500 |  |
| 600 |  |

How can you tell from the table that the graph will be **linear**?

(a straight line)

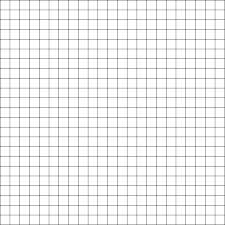
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What is the **initial charge** for the company? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the **rate of change**? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Make a graph to show the cost of each rental company.



Where do they

**intersect**? ( , )

What does

the **intersection**

**point** represent?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Which company

Is cheaper

to rent from?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_