

TI-Nspire Technology Activity

Unit 4: Tables of Values and Graphing

On your calculator, press  > **7: My Documents**, then open file **u04_163**.

Tables of Values and Graphing

A taxi company charges a fixed cost of \$2.70, plus \$1.58 per kilometre travelled.



Let d represent the distance travelled in kilometres and F represent the fare in dollars.

An equation that relates d and F is:



$$F = 2.70 + 1.58d$$

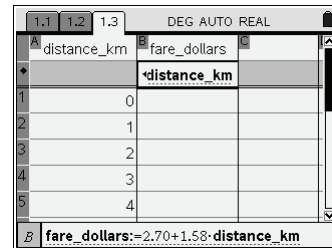
Create a table of values and graph this relation.

1. Generate a table of values.

- In the shaded row of **column b**, press  and type:
 $2.70 + 1.58 \times \text{distance_km}$
 Then press .

Technology Tip:




To enter an underscore (_), press  .

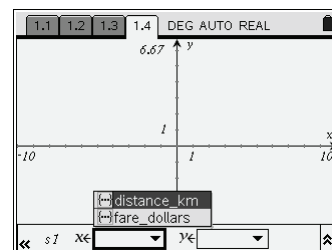





| | distance_km | fare_dollars |
|---|-------------|--------------|
| 1 | 0 | |
| 2 | 1 | |
| 3 | 2 | |
| 4 | 3 | |
| 5 | 4 | |

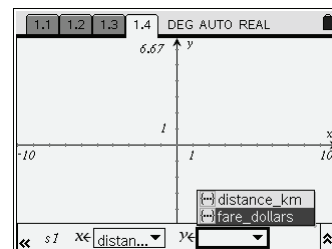
fare_dollars:=2.70+1.58*distance_km

2. Graph the data.

- Press  > **2: Graphs & Geometry** to insert a Graphs & Geometry page.
- Press , then select **3: Graph Type** > **4: Scatter Plot**.
- Click to choose the x -values.
 Select **distance_km**, then click again or press .



- Press , then click to select the y -values.
 Choose **fare_dollars**, then click once or press .
- Press  **G** to hide the row at the bottom of the page.



3. Adjust the viewing window.• *Method 1:*

Press **(menu)**, then select **4: Window > 9: Zoom – Data** to view all the data.

• *Method 2:*

Press **(menu)**, then select **4: Window > 1: Window Settings**.

Change the values in each row.

Press **(tab)** to move from one row to the next.

