Name: _____ Date: _____

TI-Nspire Technology Activity

Unit 4: Tables of Values and Graphing

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

Tables of Values and Graphing

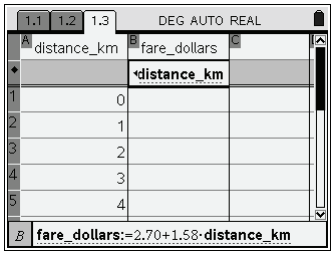
A taxi company charges a fixed cost of $2.70, plus $1.58 per kilometre travelled.

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.

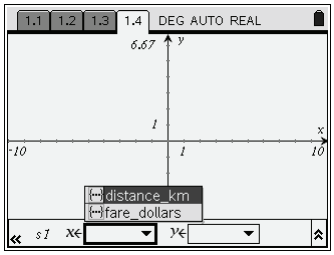
- In the shaded row of **column b**, press (enter) and type:
  2.70 + 1.58 × distance_km
  Then press (enter).



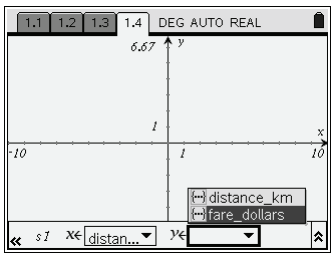
> **Technology Tip:**
> To enter an underscore (_), press (ctrl) (space).

2. Graph the data.

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



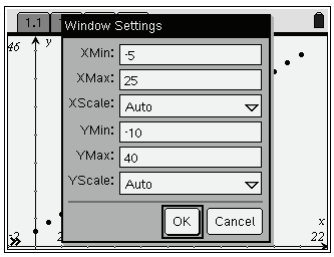
- Press (tab), then click to select the y-values.
  Choose **fare_dollars**, then click once or press (enter).
- Press (ctrl) **G** to hide the row at the bottom of the page.



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.



Additional Teacher Notes

To read the scale on a graph:

- The number to the right of the origin indicates the scale of the *x*-axis. For example, on this graph, the tick marks along the *x*-axis increase by 2.
- The number above the origin indicates the scale of the *y*-axis. For example, on this graph, the number above the origin indicates that the tick marks along the *y*-axis increase by 5.