$\qquad$
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## Method 3: Use a Graphing Calculator

## BLM 6-9

Clear all the calculator's lists. Model the fuel consumption using the equation $f=12800 t$.

Enter the equation:

- Select re.
- Enter the equation $y=12800 x$.


Adjust the window settings:

- Select window.

Enter the following parameters:

| $x$ min | -2 | $y$ min | -100 |
| :--- | ---: | :--- | ---: |
| $x$ max | 15 | $y$ max | 140000 |
| $x$ scale | 2 | $y$ scale | 10000 |

```
WIFHOUW
    {min=-2
    M}={={
    YMin=-100
    Ymax=140060
    Yscl=101060
    xres=1
```

Display the graph:

- Press GRAPH.
- End GRAPH will display the table of values. Scrolling in the table of values can be used to find the fuel consumption for a given time.

For part b), 140800 L of fuel are used in 11 h .


| Wi. | IVt |
| :---: | :---: |
| 5 | 76Eu! |
| 7 | 85E\% |
| g | 10:4i!! |
| 9 | 115200 |
| 10 | 128110 |
| \$! | 1408jü. |
| 12 | 1536\%! |

Name： $\qquad$ Date： $\qquad$

Alternate method：
－Press $2 \pi d$［TRACE and select 1：Value．
－Enter 11 for $x$ ．Press ENTER．
There are 140800 L of fuel used in 11 h ．


Find the amount of time：
－To find the amount of time，given 122000 L of fuel，press $⿴ 囗 ⿰ 丿 ㇄$
Enter the equation $\boldsymbol{y}=122000$ in $\mathbf{Y}_{2}$ ．
－Press GRAPH．


Find the intersection point of the two equations：
－Press［2nd TRACE and select 5：Intersect．
－Using the arrows，move the cursor to the point of intersection of the two lines．
－Press ENER to confirm that you are on the first curve of $y=12800 t$ ．
－Press Enter to confirm that you are on the second curve of $y=122000$.
－Press ENTER to confirm that you are
 accepting the guess．

For part c），the fuel will last for 9.5 h ．

