

ACTIVITY 19

BUYING A SOFA

Jean decided to buy a sofa. Sofa-Mart had a sale going on where Jean could pay \$250 down for a sofa and pay the rest at \$75 per month. At A-1 furniture, the same sofa cost \$300 down, and the monthly payments were \$50.

- Write an equation for the *Sofa-Mart* purchase using **T** for total paid and **M** for number of months.
- Write an equation for the *A-1 Furniture* purchase using **T** for total paid and **M** for number of months.
- Fill in table information for the Sofa-Mart equation using the table at right.
- Fill in table information for the A-1 Furniture equation using the table at right.
- What scale should be used for the y-axis? Why?
\$50 increments allows us to capture all the data from the table on the given grid.
- Graph equation 1 (Sofa-Mart), using points from the table, on the graph below. Label the line.
- Graph equation 2 (A-1 Furniture), using points from the table, on the graph below. Label the line.

Equation 1:	$T = 75m + 250$
Equation 2:	$T = 50m + 300$

M	T Sofa-Mart	T A-1 Furniture
1	325	350
2	400	400
3	475	450
4	550	500
5	625	550
6	700	600
7	775	650
8	850	700

