

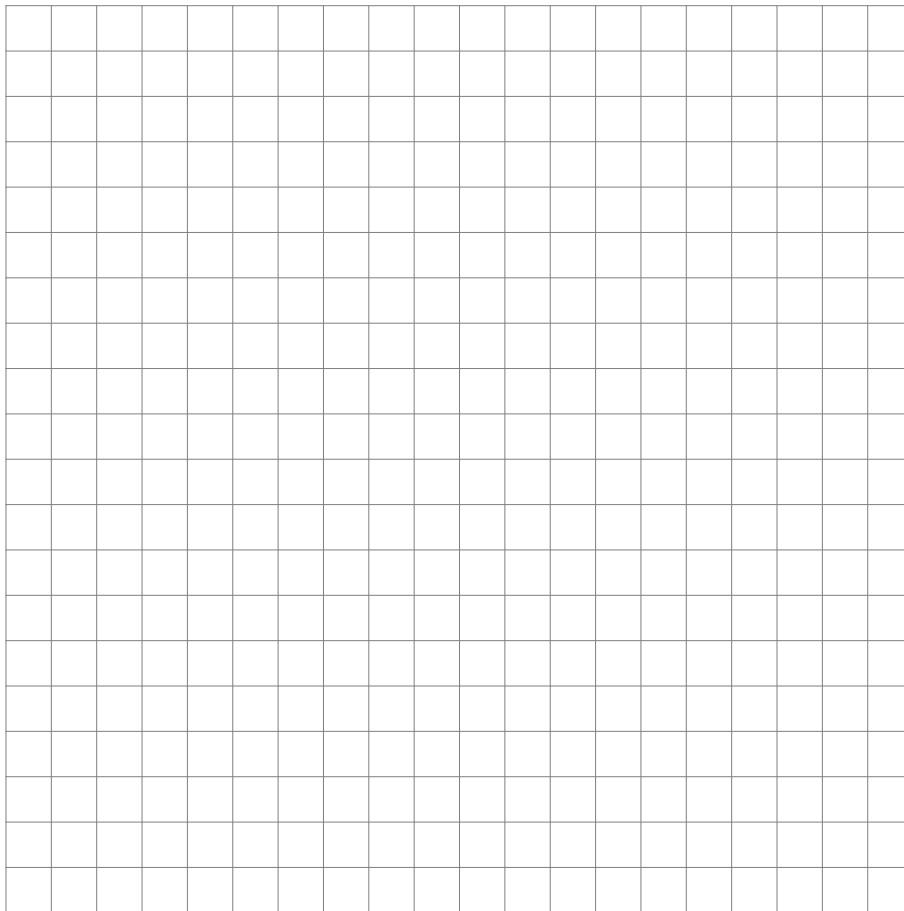
Group Quiz 4 Chapter 1

1. The values of Microsoft stock for various times are listed in the table:

Date	Number of Months Since January 1, 1998	Value of Share (dollars)
January 1, 1998	0	32
July 1, 1998	6	55
January 1, 1999	12	75
July 1, 1999	18	92
January 1, 2000	24	112

Let v represent the value (in dollars) of a share of Microsoft Stock at t months since January 1, 1998.

- (a) Draw a scattergram for the data in the table.
- (b) Sketch a line that comes close to the data points in your scattergram. Use your line to estimate the value of a share on January 1, 2001.



2. Killer whales are highly intelligent and social. When whales of a pod reunite after a long separation, they sometimes form a line and touch noses. The stock of killer whales in Puget Sound has declined since 1996 due to depletion of salmon, toxic pollution, and disturbances from whale-watching boats and other shipping traffic (see the table below).

Year	Population
1996	97
1997	91
1998	89
1999	84
2000	82
2001	78

- (a) Let p represent the killer whale population in Puget Sound at t years since 1990. Draw a scattergram of the data.
- (b) Find an equation for a line that you think comes close to the points in the scattergram.
- (c) Draw a sketch of your line on the same sketch as the scattergram.

