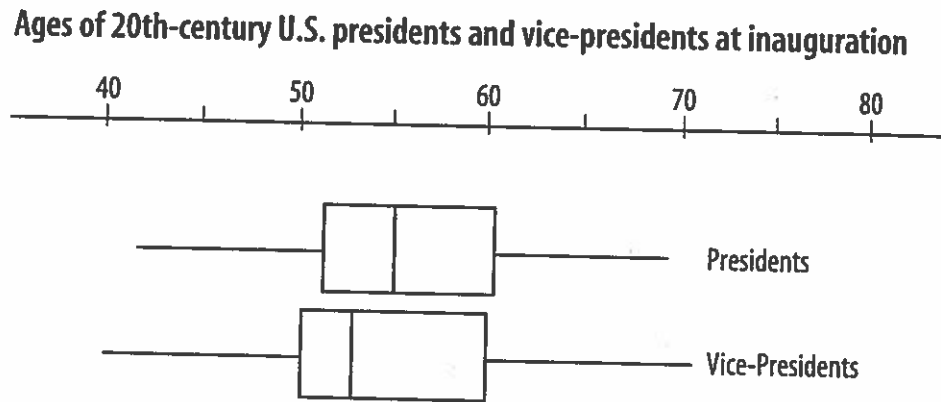


WORKING WITH DATA

## Math Activity: Box plots

1. Compare the two box plots in each example (below and on the next page). What can you tell about the two groups? How do they differ?
2. Split your group into pairs. Each pair should make box plots for the Lost Teeth data—one box plot for the first grade, and one for the third grade. (Refer to the handout from Session 4 for the data.) When both pairs in your group are finished, compare your work. Discuss: How can you use the box plots to compare the two grades?

### Box plots: Inauguration age data



SOURCE: *Exploring Data*, Teacher's Edition, by J. M. Landwehr & A. E. Watkins (Parsippany, NJ: Dale Seymour, 1996), p. 72.

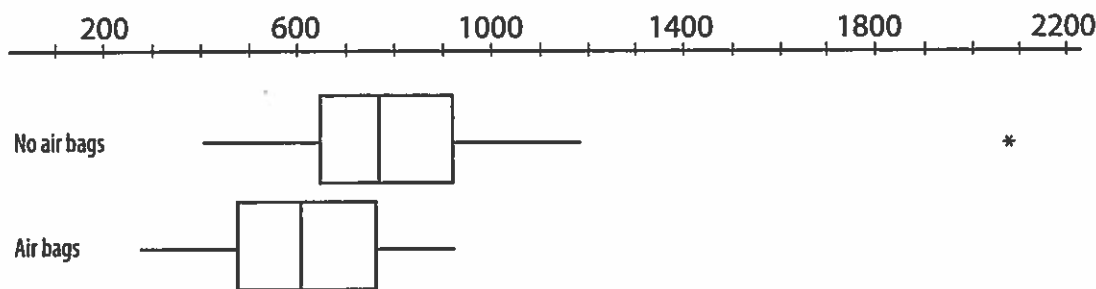
## SESSION 6

## WORKING WITH DATA

## Box plots: Automobile air bag data

Make and model	Driver head injury	Driver air bag?	Make and model	Driver head injury	Driver air bag?	Make and model	Driver head injury	Driver air bag?
Acura Integra	585	No	Dodge Shadow	503	Yes	Mazda Protégé	779	No
Acura Legend	897	Yes	Eagle Vision	770	Yes	Mitsubishi Eclipse	772	No
BMW 325i	705	Yes	Ford Aerostar van	485	Yes	Mitsubishi Galant	1,024	No
Buick Century Custom	542	Yes	Ford Crown Victoria	907	Yes	Mitsubishi Mirage	919	No
Buick Regal	880	No	Ford Mustang	651	Yes	Missan 240SX	407	No
Chevrolet Astro van	2,065	No	Ford Probe	784	Yes	Nissan Altima	610	Yes
Chevrolet Beretta	343	Yes	Ford Taurus	647	Yes	Nissan Maxima	818	Yes
Chevrolet Caprice	533	Yes	Ford Taurus wagon	480	Yes	Olds Eighty-Eight	473	Yes
Chevrolet Cavalier	770	No	Ford Thunderbird	541	No	Plymouth Acclaim	762	Yes
Chevrolet Corsica	493	Yes	Honda Accord	501	Yes	Plymouth Bonneville	359	Yes
Chevrolet Geo Metro	860	No	Honda Accord SE	555	Yes	Pontiac Trans Sport van	761	No
Chevrolet Geo Storm	417	Yes	Honda Civic	744	Yes	Saturn SL	705	Yes
Chrysler Concorde	770	Yes	Honda Prelude	510	Yes	Toyota Camry	390	Yes
Chrysler New Yorker	674	Yes	Hyundai Excel sedan	696	No	Toyota Celica	834	Yes
Dodge Caravan van	407	Yes	Hyundai Excel hatch	520	No	Toyota Corolla	522	Yes
Dodge/Plymouth Colt	919	No	Hyundai S coupe	870	No	Toyota Previa van	711	Yes
Dodge Daytona	399	Yes	Lincoln Continental	863	Yes	Volkswagen Passat	1,182	No
Dodge Dynasty	674	Yes	Mazda 626	589	Yes	Volvo 240	282	Yes
Dodge Intrepid	770	Yes	Mazda Miata	920	Yes			

These data reflect federal crash tests for 1993 cars sold in the United States. The cars were crashed into a wall at 35 miles per hour with a dummy wearing the seat belt and shoulder harness. A "Driver Head Injury" score of 500 or less means almost no chance of a driver getting a serious head injury. A higher score means more chance of a serious head injury. A score of 1,000 indicates about one chance in six. Source: National Highway Traffic Safety Administration.



## Driver head injury with and without air bags

SOURCE: *Exploring Data*, Teacher's Edition, by J. M. Landwehr & A. E. Watkins, (Parsippany, NJ: Dale Seymour, 1996), pp. 64-67.