

1.3 Worksheet

The table below shows the final fourth quarter grades of my geometry students last year for both females and males.

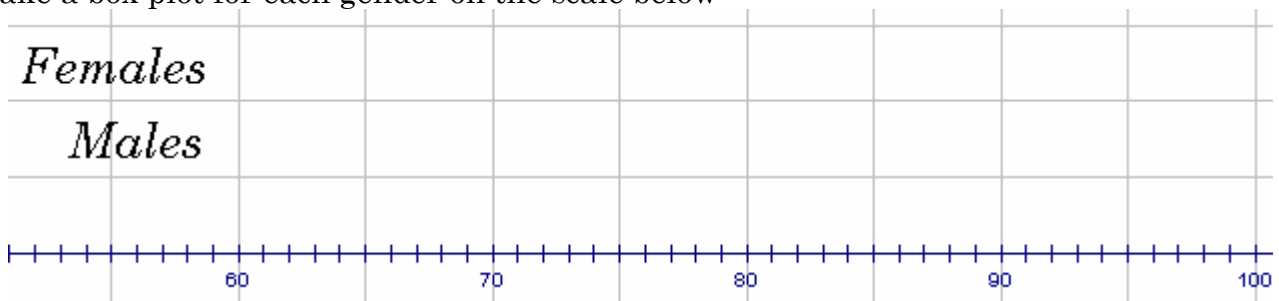
Females 99% 94% 94% 94% 93% 93% 91% 89% 87% 86% 85% 81% 81% 79% 79% 78% 78% 77% 76% 76% 76% 72% 66%

Males 93% 88% 85% 84% 83% 80% 79% 75% 75% 67% 65%

- 1) Find the five-number summary for each gender and put them in the table on the right:

	Females	Males
Minimum		
Q1		
Median		
Q3		
Maximum		

- 2) Make a box plot for each gender on the scale below



- 3) The interquartile range, or **IQR**, is the difference between the first and third quartiles ( $Q_3 - Q_1$ ).
- Find the IQR for both the females and males.
  - Which number is larger?
  - What visual clue on the box plot tells you the IQR?

- 4) The points scored by the Chicago Bulls Players in 1997-1998 is shown in the table on the left. Find the five-number summary and then create a box plot on the graph at the bottom.

Playa'	Points
Michael Jordan	2357
Toni Kukoc	984
Scottie Pippen	841
Ron Harper	764
Luc Longley	663
Scott Burrell	416
Steve Kerr	376
Dennis Rodman	375
Randy Brown	288
Jud Buechler	198
Bill Winnington	167

- 5) Then, redo the box plot on the same scale with Michael Jordan's point total removed. You'll have to recalculate the five-number summary.

