Stem-and-Leaf Plots NOTES: In a stem-and-leaf plot, numerical data are listed in ascending or descending order. The digits in the greatest place value of the data are used for the stems. The digits in the next greatest place value form the leaves. ाक्ष्म मार्गित्र राजाय व Stem-and-Leaf Plot OLYMPICS The table shows the total **Beach Volleyball Scores** points scored in the first beach Country Men Women volleyball match played by each Greece team in the 2004 Olympics. Display United States 61 42 the data for the men's teams in a Brazil 42 42 stem-and-leaf plot. Canada 44 42 South Africa 60 17 Step 1 Find the least and the Cuba 50 54 greatest number. Then Germany 55 52 identify the greatest place Australia 42 value digit in each number. Switzerland 49 29 • The least number, 42, has Norway 46 37 Source: Athens 2004 4 in the tens place. • The greatest number, 61, has 6 in the tens place. Draw a vertical line and write the stems Step 2 Stem | Leaf from 4 to 6 to the left of the line. 5 Step 3 Write the leaves to the right of the Stem | Leaf the corresponding stem on the other 4 2 4 2 9 6 side of the line. For example, for 42, 5 2 0 5 6 1 0 write 2 to the right of 4. Step 4 Rearrange the leaves so they are Beach Volleyball Scores ordered from least to greatest. Stem | Leaf 4 2 2 4 6 9 Repeat a leaf as often as it 5 0 2 5 occurs. Then include a key to 6 0 1 explain how to interpret the data. $5 \mid 2 = 52 \text{ points}$ Refer to the stem-and-leaf plot in Example 1. b. In which interval(s) do most of the scores occur? c. What is the range of the data? d. What is the median score? Two sets of data can be compared using a back-to-back stem-andleaf plot. The back-to-back stem-and-leaf plot below shows the scores of two basketball teams for the games in one season. Points Scored The leaves for The leaves for the Falcons | Stem | Cardinals one set of data other set of data 76554222 #24 are on one side are on the other 022579 88854 of the stem. side of the stem. 100 | 8, | 1346899 1 8 = 81 points 8 6 = 86 points