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LESSON 15 Stem-and-Leaf Plots

A **stem-and-leaf plot** organizes data by showing the actual numbers of the data. The **stems** show the first digit or digits that are common to the data in the set. The **leaves** show the last digit in the data. The leaves are written in order from least to greatest.

A stem-and-leaf plot has the same number of leaves as the number of data values.

If the data in the set have more than two total digits, the stems are all digits but the last one. The leaves are the last digits of the data values.

COSTS OF BEDSPREADS

Stems	Leaves
1	9
2	7 9
3	5 6 9
4	
5	0 0 5
6	5 9
1	9 means \$19

The costs of these bedspreads are:

\$19, \$27, \$29, \$35, \$36, \$39, \$50, \$50, \$55, \$65, and \$69

Read each problem. Circle the letter of the best answer.

Use this stem-and-leaf plot to answer questions 1–4.

HEIGHTS CLIMBED ON CLIMBING WALL (METERS)

2	5 6 7
3	0 2 2 3 5 8
4	2 4 5 6 7
5	3 5 8 9
6	1 4
2	5 means 2.5 m

- 1** What is the range in heights climbed on the climbing wall?
- A** 3.4 m **C** 3.7 m
- B** 3.6 m **D** 3.9 m

- 2** What is the mode of this data?

- A** 3.2 m
- B** 3.6 m
- C** 3.9 m
- D** 4.4 m

- 3** How many heights are greater than 5 meters?

- A** 4 **C** 8
- B** 6 **D** 11

- 4** How many heights are represented on this stem-and-leaf plot?

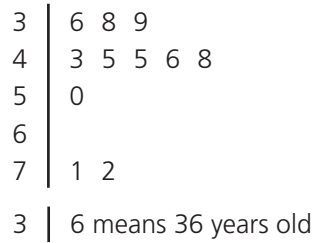
- A** 5
- B** 15
- C** 20
- D** 25

The range is the difference between the largest and smallest numbers. The smallest number is 2.5. The largest number is 6.4. Subtract: $6.4 - 2.5 = 3.9$. The correct answer is D.

Read each problem. Write your answers.

- 5 The ages of all candidates running for office are shown in this stem-and-leaf plot.

AGES OF CANDIDATES



- A What is the meaning of the zero after the 5 in this stem-and-leaf plot?

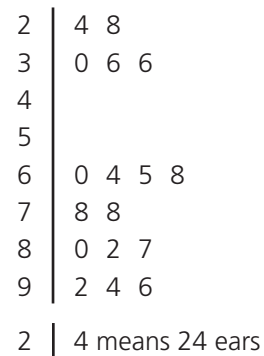
Answer: _____

- B What is the meaning of the blank space after the 6 in this stem-and-leaf plot?

Answer: _____

- 6 This stem-and-leaf plot shows the number of ears of corn sold each day at a vegetable stand.

EARS OF CORN SOLD



- A On how many days were between 40 and 55 ears of corn sold?

Answer: _____

- B How many total days were ears of corn sold at this vegetable stand?

Answer: _____

- C Explain why your answers are correct.

