

Practice: Word Problems

Stem-and-Leaf Plots

ENDANGERED SPECIES For Exercises 1–6, use the table below. It shows the number of endangered species in the U.S.

Endangered Species in U.S.			
Group	Number of Species	Group	Number of Species
mammals	63	clams	61
birds	78	snails	20
reptiles	14	insects	33
amphibians	10	arachnids	12
fishes	70	crustaceans	18

<p>1. Make a stem-and-leaf plot of the data.</p>	<p>2. What group has the greatest number of endangered species in the U.S.?</p>
<p>3. What group has the least number of endangered species in the U.S.?</p>	<p>4. What is the range of the data?</p>
<p>5. Use your stem-and-leaf plot to determine the median and mode.</p>	<p>6. How many groups have less than 30 endangered species in the U.S.?</p>

2-5

Practice: Skills

Stem-and-Leaf Plots

Make a stem-and-leaf plot for each set of data.

1. 23, 36, 25, 13, 24, 25, 32, 33, 17, 26, 24 2. 3, 4, 6, 17, 12, 5, 17, 4, 26, 17, 18, 21, 16, 15, 20

3. 26, 27, 23, 23, 24, 26, 31, 45, 33, 32, 41 4. 347, 334, 346, 330, 348, 347, 359, 344, 357, 40, 21, 20

HOT DOGS For Exercises 5–7, use the stem-and-leaf plot at the right that shows the number of hot dogs eaten during a contest.

Stem	Leaf
0	8 8 9
1	1 2 2 4 7 7 7
2	1 1 2

$$2|1 = 21$$

5. How many hot dogs are represented on the stem-and-leaf plot?
6. What is the range of the number of hot dogs eaten?
7. Find the median and mode of the data.

Determine the mean, median, and mode of the data shown in each stem-and-leaf plot.

8.

Stem	Leaf
0	1 2 2 3
1	3 4 5 5
2	0 0 0 1 3

$$2|0 = 20$$

9.

Stem	Leaf
2	0 0 0 2 3 5 7
3	1 2
4	0

$$4|0 = 40$$

10.

Stem	Leaf
22	1 1 2 7
23	3 3 9
24	0 6 8

$$24|0 = 240$$

11.

Stem	Leaf
0	1 3 3 4 7
1	2 2 2 4 5 6
2	0 0 0 1

$$2|0 = 20$$