Name: _____

Back-to-Back Stem-and-Leaf Plot

Stem-and-leaf plots show data frequency by emphasizing place value.
Back-to-back stem-and-leaf plots compare two sets of data with one table.

1. Order your data sets from least to greatest.

   Set A: 38, 45, 50, 43, 51, 49 → 38, 43, 45, 49, 50, 51

   Set B: 66, 51, 30, 58, 62, 57 → 30, 51, 57, 58, 62, 66

2. Draw a 3-column T-chart and choose stem and leaf place values. Tens and ones are most common.

3. Write the data sets' stems in the center column. Do not skip numbers.

4. Write one data set's leaves in the right column, matched to their stems, *in order*.

5. Write the other data set's leaves in the left column, matched to their stems,
   in order. **Note:** smaller values should always be closest to the stem.

A		B
8	3	0
9 5 3	4	
1 0	5	1 7 8
	6	2 6

Key:
0 | 5 = 50

Key:
5 | 0 = 50

Attempt 1 Score	Attempt 2 Score

Attempt 1 values in order:

Attempt 2 values in order:

Key: 0 | 4 = 40   **Key:** 4 | 1 = 41

How many friends played the game? _____

What was the lowest score on attempt 1? _____   On attempt 2? _____

Name: _____

Back-to-Back Stem-and-Leaf Plot

2. Ismael compares the final scores of two local basketball teams from each game they've played so far this season.

The Pirates

53 46 86 71 55 79 63
67 85 62 87 56 86 64 59
84 52 70 69 88 56

The Foxes

71 51 47 37 44 53 36 63
45 70 44 41 46 47 52
39 48 68 60 46 59 32 56

Pirates' scores in order:

Foxes' scores in order:

Key: 2|6|0 means the Pirates scored 62 and the Foxes scored 60

In this situation, does each unit represent a point or a win?   _____

Which team has played more games so far this season?   _____

The Pirates' highest score was how much greater
than the Foxes' highest score?   _____

In total, how many times did the teams score
between 65 and 75 points?   _____

True or false: The Foxes scored *fewer* than 55 points
more times than the Pirates scored *more* than 55 points.   _____

Back-to-Back Stem-and-Leaf Plot

Stem-and-leaf plots show data frequency by emphasizing place value. Back-to-back stem-and-leaf plots compare two sets of data with one table.

1. Order your data sets from least to greatest.

   Set A: 38, 45, 50, 43, 51, 49 → 38, 43, 45, 49, 50, 51

   Set B: 66, 51, 30, 58, 62, 57 → 30, 51, 57, 58, 62, 66

2. Draw a 3-column T-chart and choose stem and leaf place values. Tens and ones are most common.

3. Write the data sets' stems in the center

A		B
8	3	0
9 5 3	4	
1 0	5	1 7 8
	6	2 6

Key:
0 | 5 = 50

Key:
5 | 0 = 50

Back-to-Back Stem-and-Leaf Plot

2. Ismael compares the final scores of two local basketball teams from each game they've played so far this season.
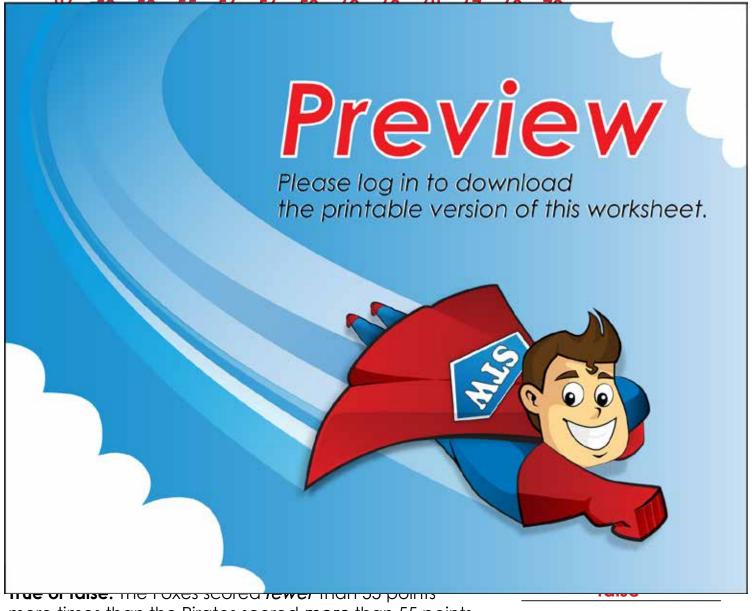
The Pirates

53 46 86 71 55 79 63
67 85 62 87 56 86 64 59
84 52 70 69 88 56

The Foxes

71 51 47 37 44 53 36 63
45 70 44 41 46 47 52
39 48 68 60 46 59 32 56

Pirates' scores in order:

True or false: The Foxes scored *fewer* than 55 points _____ **false** more times than the Pirates scored *more* than 55 points.