2/4

Stem and Leaf Plot

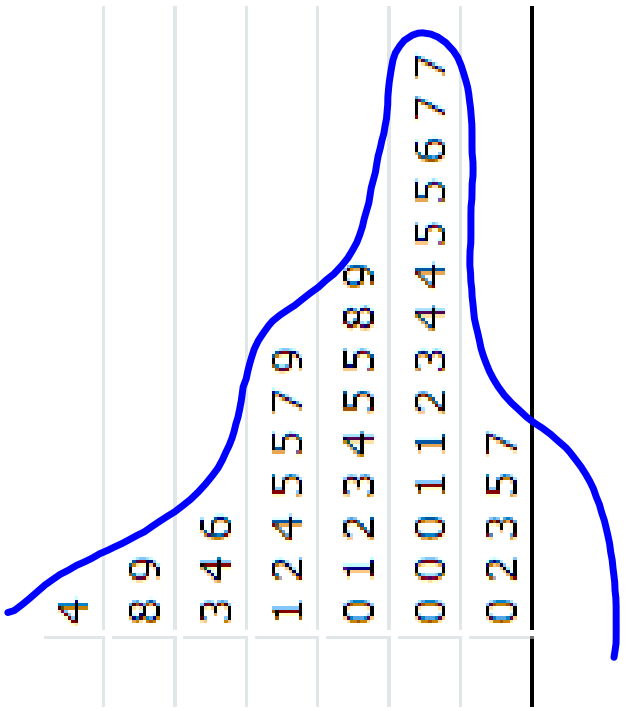
Table 10. Math scores of 41 students

Stem	Leaf
0	4
1	8 9
2	3 4 6
3	1 2 4 5 5 7 9
4	0 1 2 3 4 5 5 8 9
5	0 0 0 1 1 2 3 4 4 5 5 6 7 7
6	0 2 3 5 7

Lowest score is 4

Three scores of 50

Highest score is 67

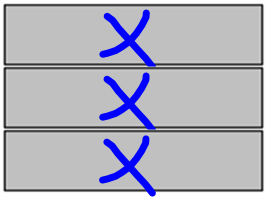


Turn stem and leaf plot sideways, and draw a curve above the data.

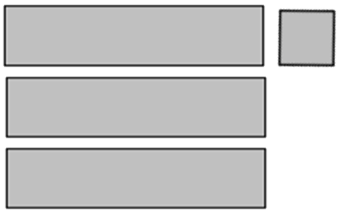
Build these steps with algebra tiles.

1. Start with any number x.

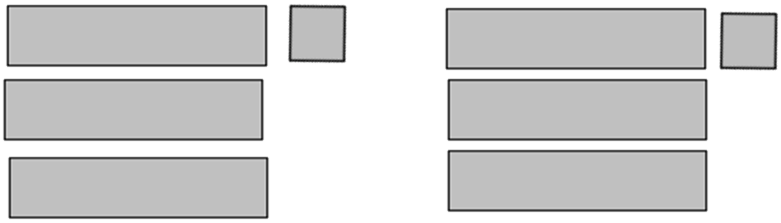
2. Triple it.



3. Add 1.



4. Multiply by 2.



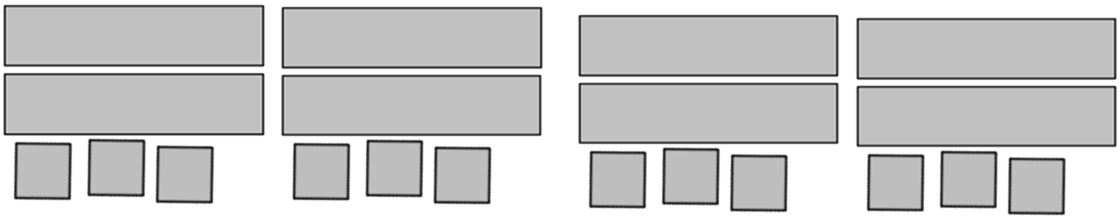
Look at the algebra tiles you used to build the final step.
Write *two* different algebraic expressions to represent those tiles.

$6x+2$ $2(3x+1)$

Write the expression $4(2x + 3)$

~~8x+3~~

Build the expression with algebra tiles.
Then **rewrite** the expression without parentheses.



8x+12

Without Algebra Tiles:

4(2x+3)

8x +12

or

4	2x	3
	8x	12

Distributive Property

$5(638)$ or

	600	30	8
5	3000	150	40

$5(600)+5(30)+5\cdot 8$

$3000+150+40$

3190

$$\begin{array}{r} 3000 \\ 150 \\ +\ 40 \\ \hline 3190 \end{array}$$

$4(x+3)$

$4x+12$

$6(2x+5)$

$12x+30$

Rewrite without parentheses

$10 + 15x$

$5(2+3x)$