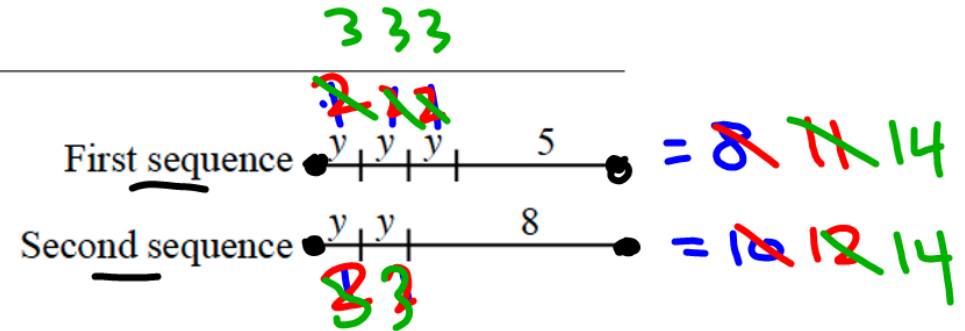Bridge – Introduction to Variables   Name:_____

4-2.

Now Croakie has a new special jump length. He moved between two fixed points, each time with a different sequence. His trainer, Thom, drew the diagram below to represent his two sequences, using y to represent the length of Croakie's new special jump.

3 3 3

First sequence y y y 5 $= 8\ 11\ 14$

Second sequence y y 8 $= 10\ 12\ 14$

3 3

a.   Describe each of Croakie's two sequences.

b.   Work with your team to figure out how far Croakie travels in each special jump. Be prepared to explain your thinking to the class.

Try: $Y=1$ No. $Y=2$ No. $Y=3$ Yes!   The special jump is 3 units.

c.   What is the distance between the start and end of his sequence of jumps?

The distance between the start and end is 14 units.

4-3.

Croakie has a new set of moves. The sequence involves three special high hops. The expression $x + x + x + 5$ represents the whole sequence, with x representing the distance he moves with each high hop.

a. In your own words, describe what you know about Croakie's new sequence.

b. If Croakie's new sequence is a total of 11 feet, draw a diagram to represent Croakie's new sequence.

c. How far does Croakie jump with each high hop? How can you tell?