

BORDERS PROBLEM

FINAL ASSESSMENT

LEARNING TARGETS:

(LT4) I can find and compare multiple ways to solve problems.

(LT5) I can represent real situations with mathematical symbols (numbers, operations and variables).

DIAGRAM # 1

DIAGRAM # 2

DIAGRAM # 3

REQUIREMENTS (CHECKLIST):

PART 1:

- For the shape you are given, write an expression (with a variable) that can count the number of boxes in a similar shape of ANY size.
- Define what your variable represents (BE SPECIFIC!). Bonus credit if you can write your expression so that the Diagram Number (d) is your variable
- Explain how you found your answer in at least 6 sentences using the steps we discussed in class.

PART 2:

- Create a color-coded diagram showing what each number and operation represent in your diagram.
- Write a written explanation explaining what each number, operation and variable represents in your diagram.

PART 3:

- Use your expression to figure out how many boxes will be in Diagram # 100. Show/explain your work. Start this question by figuring out what your variable equals in Diagram # 100.
- Revise your entire project using the rubric!