

Name: _____ Teacher: _____ Grade: _____

Work samples from past months' challenges can be found at <http://fpselementarymath.wikispaces.com>

Grades 1-2 April MATH CHALLENGE

Your challenge is to use your problem solving skills to solve these two problems. There are **MANY** ways to work on these. Be sure to show your thinking using pictures, number, and/or words.

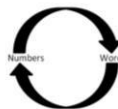
Due: April 25, 2017

Momo the chicken lays 5 eggs a week. Coco the chicken lays 7 eggs a week. How many eggs in all do both chickens lay in 2 weeks? Show your work.

Which **MATH PRACTICES** did you use to solve this problem? Circle all that apply.



I can make a plan and use my plan to solve the problem without giving up.



I can use numbers and words to help me make sense of problems.



I can explain my thinking and try to understand others.



I can recognize math in everyday life and use math I know to solve problems.



I can use math tools and tell why I chose them!



I can work carefully and be clear when I share my ideas. I can check my work.



I can see and understand how numbers and shapes are put together as parts and wholes.



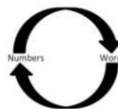
I can create shortcuts and generalizations and reflect on the reasonableness of my answers.

Bob likes to skip stones at the local pond. He collected 15 rocks and separated them into 5 piles. Each pile has a different number of rocks. How many rocks are there in each pile? Show your work.

Which **MATH PRACTICES** did you use to solve this problem? Circle all that apply.



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GRADES 3-4 April MATH CHALLENGE

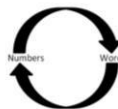
Your challenge is to use your problem solving skills to solve these two problems. There are *MANY* ways to work on these. Be sure to show your thinking using pictures, number, and/or words. Due: April 25, 2017

Room 1 and Room 2 have 58 students in total. 4 students are transferred from Room 1 to Room 2. Now the two rooms have the same number of students. How many students were there in each room before the transfer? Show your work.

Which **MATH PRACTICES** did you use to solve this problem? Circle all that apply.



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I can use numbers and words to help me make sense of problems.



I can explain my thinking and try to understand others.



I can recognize math in everyday life and use math I know to solve problems.



I can use math tools and tell why I chose them!



I can work carefully and be clear when I share my ideas. I can check my work.



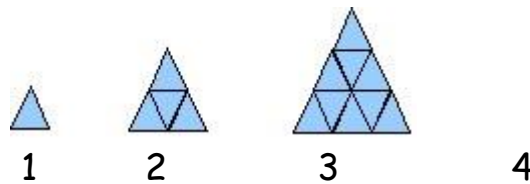
I can see and understand how numbers and shapes are put together as parts and wholes.



I can create shortcuts and generalizations and reflect on the reasonableness of my answers.

The 2nd shape has 4 congruent triangles. The 3rd shape has 9 congruent triangles.
 (Congruent triangles have the same size and shape.)

- a) What should the 4th pattern look like? (Draw it below.)
 b) How many congruent triangles are there in the 4th pattern? _____

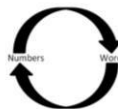


Grade 4 Only: If the pattern continues, how many congruent triangles will be in the 10th shape?

Which **MATH PRACTICES** did you use to solve this problem? Circle all that apply.



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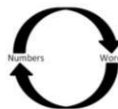
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