

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.

Momo	Coco

10 + 14 = 24

24 eggs in two weeks

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.

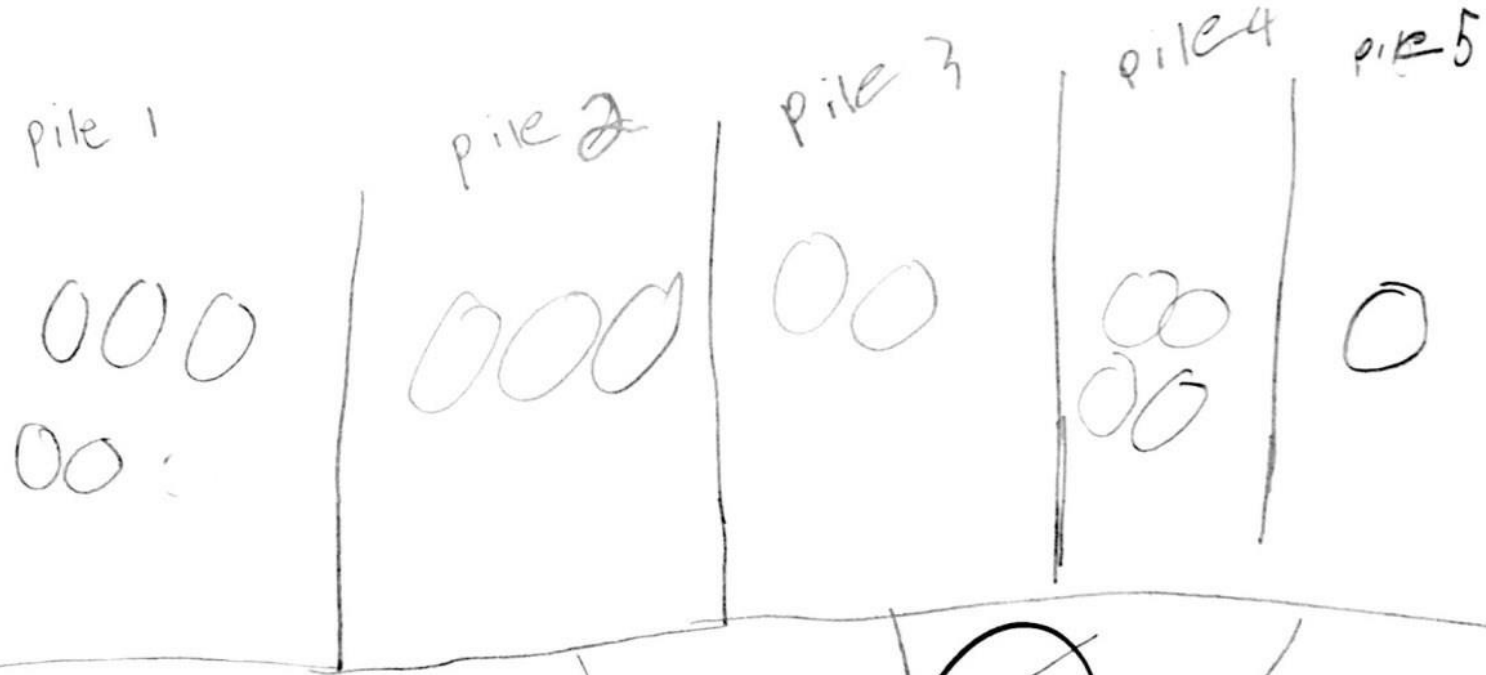


I can see and understand how numbers and shapes are put together as parts and wholes.




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.





$5 + 4 = 9$
 $9 + 1 = 10$
 $10 + 3 = 13$
 $13 + 2 = 15$


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


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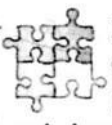
I can make a plan and use my plan to solve the problem without giving up.
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I can use numbers and words to help me make sense of problems.
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I can explain my thinking and try to understand others.
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I can recognize math in everyday life and use math I know to solve problems.
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I can use math tools and tell why I chose them!
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I can work carefully and be clear when I share my ideas. I can check my work.
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I can see and understand how numbers and shapes are put together as parts and wholes.
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I can create shortcuts and generalizations and reflect on the reasonableness of my answers.

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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.

$$29 + 29 = 58$$

$$29 - 4 = 25$$
$$29 + 4 = 33$$

so that means
there were 25
in one class and
33 in the other.

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.



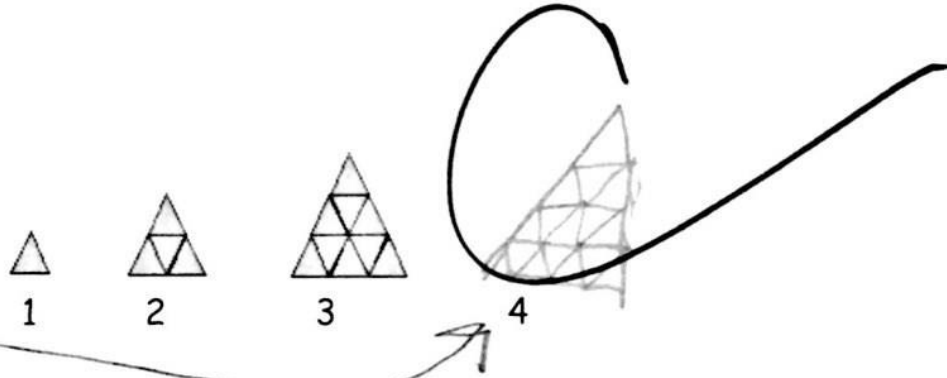
I can see and understand how numbers and shapes are put together as parts and wholes.



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

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? 16



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

each number will be squared to find the number of triangles,

$(4 \times 4 = 16)$

$10 \times 10 = 100$

answer
100 triangles

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.