

Name: \_\_\_\_\_ Teacher: \_\_\_\_\_ Grade: \_\_\_\_\_

## Grades 1-2 March 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: March 28, 2017

If a new neighbor moves in with pet dogs and birds, how many animals can there be if there are 10 legs altogether? Is there more than one answer? **Explain.**

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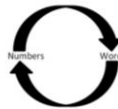
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Which **MATH PRACTICES** did you use to solve this problem? Circle all that apply.



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.



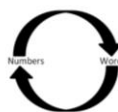
I can create shortcuts and generalizations and reflect on the reasonableness of my answers.

Place eight quarters in a row. Replace every other coin with a dime. Replace every third coin with a nickel. Finally, replace every fourth coin with a penny. What is the value of the eight coins now? How much more or less money do you have than when you started? Were any coins not replaced? **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.

Name: \_\_\_\_\_ Teacher: \_\_\_\_\_ Grade: \_\_\_\_\_

## GRADES 3-4 March 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: March 28, 2017

A rectangular living room measures 12 feet by 10 feet. A carpet placed on the floor leaves a border 2 feet wide all around it. What is the area of the border? **Show your work with a drawing.**

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.

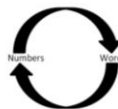
This is a riddle. Take your time to think this out!

If 3 people can build 3 snow forts in 3 hours, how long does it take 1 person to build 1 snow fort?

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.