2nd Grade Math Activities April 20-24

This week, we are reviewing addition and subtraction by doing some problems related to Earth Day. Try to spend 20-30 minutes practicing math each day.

Number Talks: Quick 5 minute math activities. The focus is on reasoning. Make sure you justify your thinking with a strong reason. "I think... because..." You may say your reason out loud and/or write it.

Math Practice: Problems solved independently with a piece of paper and a pencil. Check your work on the Answer Key at the end.

Monday	Tuesday	Wednesday	Thursday	Friday
Number Talk: How many? Math Practice: Addition and subtraction strategies review Need a challenge? Solve each problem 2 different ways	Number Talk: Same or different? Math Practice: Earth Day Story Problems Need a challenge? Solve each problem 2 different ways Extension: What other mathematical questions could you ask about these stories?	Number Talk: Agree or disagree? Math Practice: Look at the Earth Day line plot and answer the questions. Extension: Make your own line plot about the things you use every day that can be recycled!	Number Talk: Which one does not belong? Math Practice: Earth Day Story Problems. Need a challenge? Solve each problem 2 different ways Extension: What other mathematical questions could you ask about these stories?	Number Talk: Which one does not Belong? Math Practice: Comparing Trees Extension: What other mathematical questions could you ask?

Monday Number Talk:

How many do you see? How did you know?

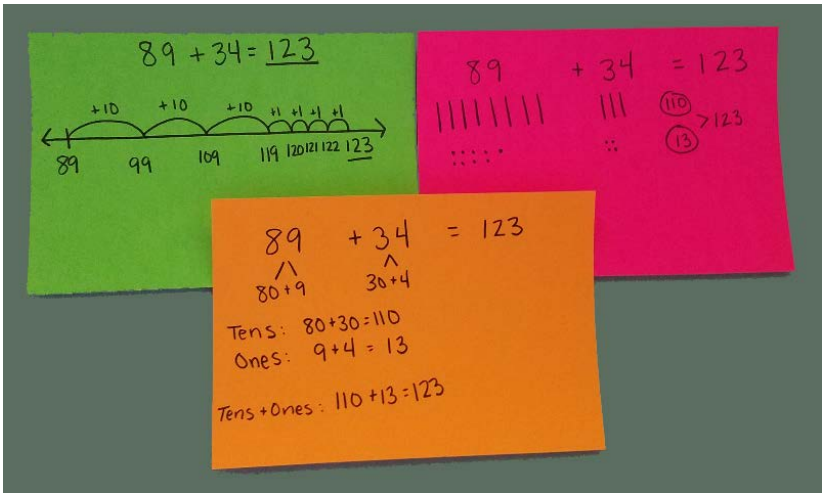
What was your counting strategy?

What are some equations you could write to represent this amount?

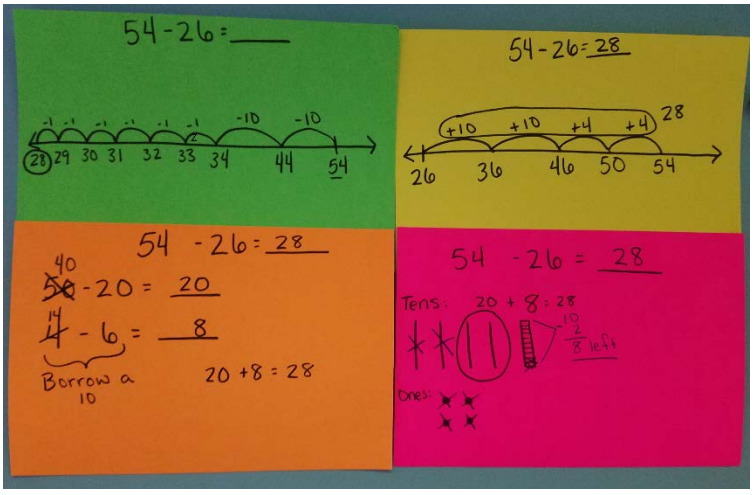
Monday Math Practice

Solve the addition and subtraction problems on your own paper using your best strategy. If you need a reminder, some examples of the strategies and models we've used in class are below.

Addition Strategies/Models:



Subtraction Strategies/Models:



Interactive place value pieces and number line apps available online:
https://www.mathlearningcenter.org/resources/apps

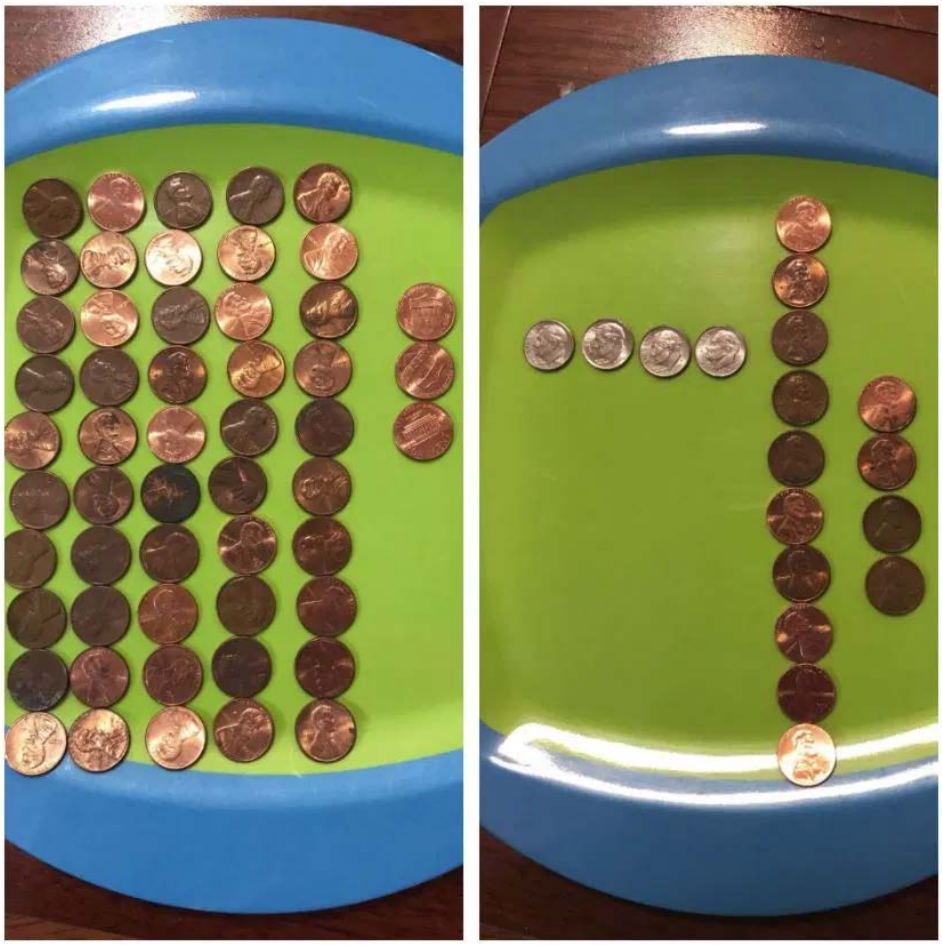
1) 37 + 54 =

2) 125 + 38 =

3) 34 - 18 =

4) 130 - 45 =

Tuesday Number Talk:



What is the same? What is different?

How did you know?

Tuesday Math Practice

Use a strategy like the 3 read strategy to help you understand the problem. Then, Solve the story problems on your own paper.

3 Read Strategy for Solving Story Problems

First Read
Ignore or cover the numbers and question and read the problem.
Ask yourself: What is the story about?
Can you: Picture it in your head? Draw a sketch? Say or write a sentence to explain what's happening?

Second Read
Uncover the question and read the problem again
Ask yourself: What question am I being asked? What am I trying to find out?
Can you: Say the question in your own words? Think about how the numbers in the problems will be used to answer the question?

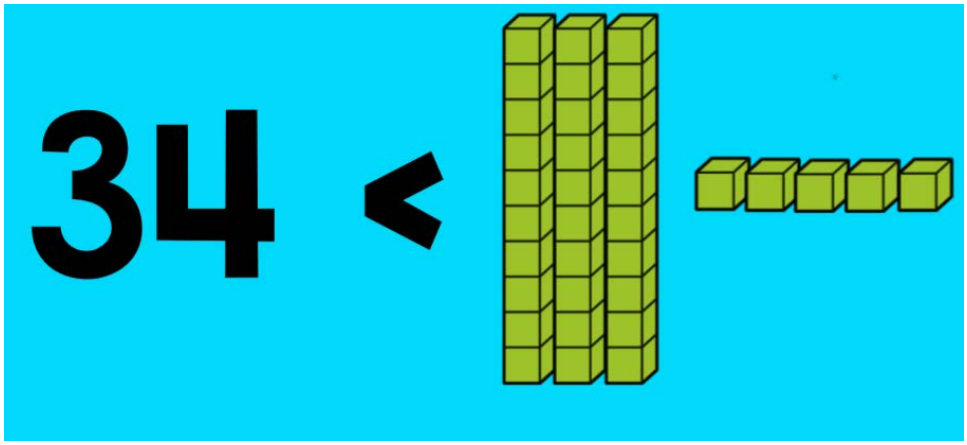
Third Read
Uncover the numbers and read the problem again
Ask yourself: Are there any quantities (numbers or amounts) that are important? Is there other important information?
Are there distractors (information you don't actually need)?

Solve the problem & check for errors
Use a strategy that makes sense to you to solve the problem. Show all your work. When you are done, think: Does your answer make sense? Can you check your answer by solving it another way?

1) Cindy and her friend Pamela were planting trees for Earth Day. Pamela planted 37 trees. Cindy planted 18 trees. How many more trees did Pamela plant than Cindy?

2) Jaime and Gerard decided to count the pounds of recycling at their school over 2 weeks. The school recycled 48 pounds of paper, 32 pounds of cans, and 18 pounds of plastic. How much recycling did the school have?

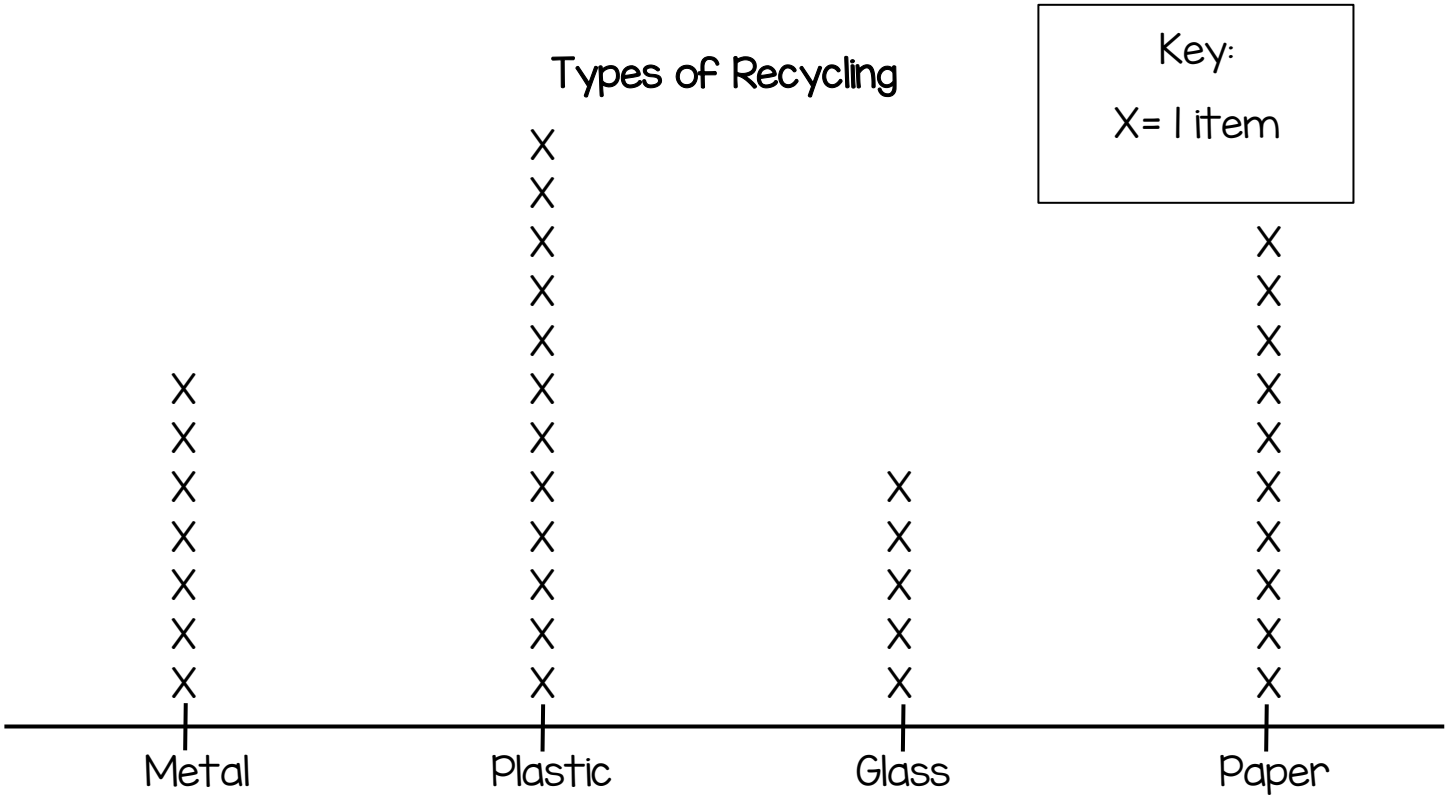
Wednesday Number Talk



Do you agree or disagree? Why?

Wednesday Math Practice:

As an Earth Day Challenge, Jerome and his parents counted the number of each type of item in his recycle bin at home. He made a line plot to show his data. Use Jerome's line plot to answer the questions.



1) How much of each item did Jerome find in the recycle bin?

2) What did his family recycle the most? What did they recycle the least?

3) How much more plastic did they recycle than glass?

4) How many items did they recycle in all?

5) Jerome decided that he could reuse all the paper items in an art project. How much recycling would they have then?

6) Can you think of other ways for them to reduce or reuse the number of items in their recycle bin?

Thursday Number Talk

A

B

C

D

Which one doesn't belong? Why do you think that?

Thursday Math Practice

Use a strategy like the 3 read strategy to help you understand the problem. Then, Solve the story problems on your own paper.

3 Read Strategy for Solving Story Problems

First Read
Ignore or cover the numbers and question and read the problem.
Ask yourself: What is the story about?
Can you: Picture it in your head? Draw a sketch? Say or write a sentence to explain what's happening?

Second Read
Uncover the question and read the problem again
Ask yourself: What question am I being asked? What am I trying to find out?
Can you: Say the question in your own words? Think about how the numbers in the problems will be used to answer the question?

Third Read
Uncover the numbers and read the problem again
Ask yourself: Are there any quantities (numbers or amounts) that are important? Is there other important information?
Are there distractors (information you don't actually need)?

Solve the problem & check for errors
Use a strategy that makes sense to you to solve the problem. Show all your work. When you are done, think: Does your answer make sense? Can you check your answer by solving it another way?

1) Louis is collecting broken crayons to reuse in an Earth Day art project. He needs 70. He collects 26 from his brother, William. His teacher, Ms. Smart, gives him 31. His friend, Cecily, gives him 17 more. Does he have enough for his project or not? How do you know?

2) On Earth Day, Cindy and her friend Pamela planted wildflower seeds in their gardens to help bees and other insects. After 3 weeks, they decided to count how many flowers sprouted and grew. Cindy's garden had 44 wildflowers. Pamela's garden had 56 wildflowers. How many wildflowers did they have together?

Friday Number Talk

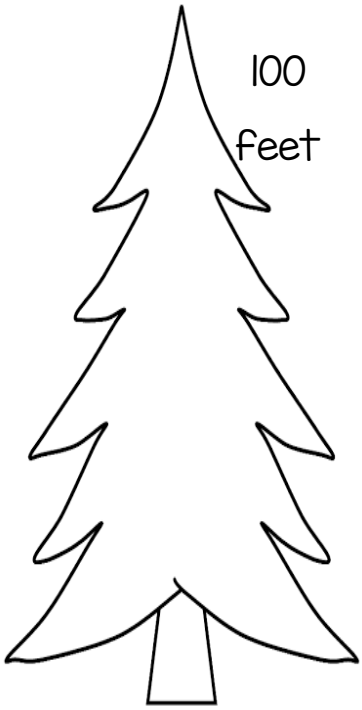
Which one doesn't belong? Why do you think that?

Friday Math Practice

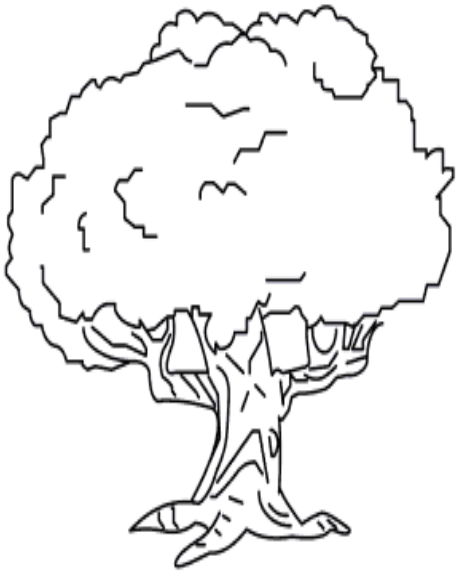
Did you know that different types of trees grow to be different sizes? Fatima found some different trees in her neighborhood and measured their heights. Use the pictures and labels to answer the questions. Show your work on your own paper.

Cedar Tree

100 feet



Oak Tree



65 feet

Plum Tree

18 feet

1) If you stacked the oak and plum tree, would they be as tall as the cedar tree? How do you know?

2) How much taller is the oak tree than the plum tree?

3) How much taller is the cedar tree than the oak tree?

4) If you stacked all 3 trees on top of one another, how tall would they be?

Answer Key:

Monday Number Talk: 36; explanations will vary. Accept any that make sense. Examples include: "I counted by 4's: 4, 8, 12...36." "I counted the first tray by 6's and saw it had 24 then counted the 2nd tray by 3's and saw it had 12. 24 + 12 = 36."

Monday Math Practice: 1) 91 2) 163 3) 16 4) 85

Tuesday Number Talk: Answers will vary. Accept any that make sense. Examples include: "They are the same, because they are the same amount, 54 cents. I know, because ten pennies is the same as one dime. They are both 10 cents. They are different because one is all pennies, and one has pennies and dimes. I know, because dimes look different than pennies."

Tuesday Math Practice: 1) 27 - 18 = 19 2) 48 + 32 + 18 = 98

Wednesday Number Talk: Agree; 34 is less than 35

Wednesday Math Practice: 1) Metal: 7; Plastic: 12; Glass: 5; Paper: 10
2) Plastic, Glass 3) 12 - 5 = 7 4) 7 + 12 + 5 + 10 = 34 5) 34 - 10 = 24
6) Answers will vary. Accept any that make sense. For example, "They could use the plastic containers to grow tomato plants!"

Thursday Number Talk: Answers will vary. Accept any that make sense. For example, "B does not belong because it doesn't have any people in it."

Thursday Math Practice: 1) He does have enough. 2) 100

Friday Number Talk: Answers will vary. Accept any that make sense. For example, "B doesn't belong, because it has smooth edges.

Friday Math Practice: 1) No. Explanations will vary. Accept any that make sense. For example, "The plum tree is about 20 feet. The oak tree is about 70 feet. 20 + 70 = 90, so they are not 100 feet."

2) 65 - 18 = 47 3) 100 - 65 = 35 feet 4) 100 + 65 + 18 = 183 feet