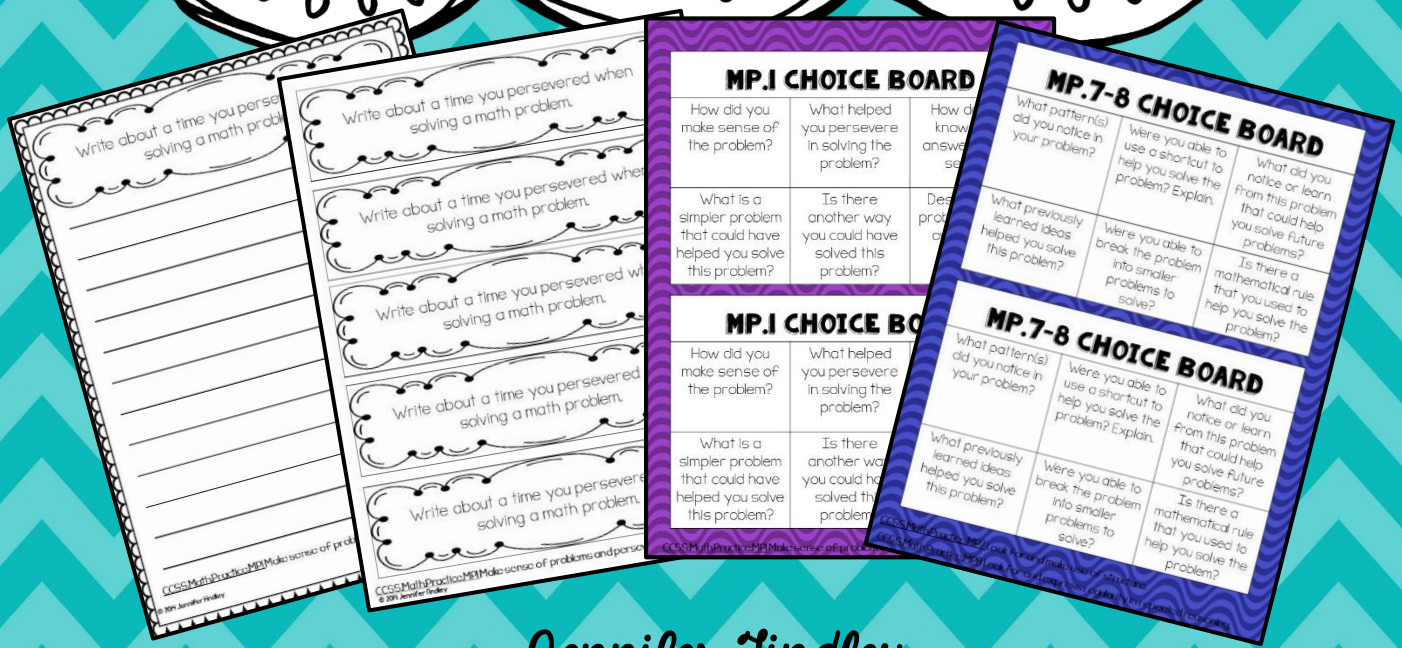
Common Core

MATHEMATICAL PRACTICES

Journal Prompts, Essential Questions, and Choice Boards



Jennifer Findley

Note to Teacher

This product contains two different resources to easily implement the Common Core Mathematical Practices into your classroom.

Journal Prompts/Essential Questions: These are 49 different prompts to get the students thinking and applying the practice to what they know. These are stand alone prompts/questions and do not need problems to go along with them.

Choice Boards: The choice boards are to be completed after solving a math problem. The choice boards are divided by practice standard (except MP.7 and MP.8 are combined). The students can choose which question to answer about the problem they just completed. (Math problems are not included in this resource.) The choice boards would work great at a math center.

JOURNAL PROMPTS OR ESSENTIAL QUESTIONS

<u>One Prompt Per Page Version:</u> These could be kept in a folder or reduced in size when printed to be glued into math notebooks.

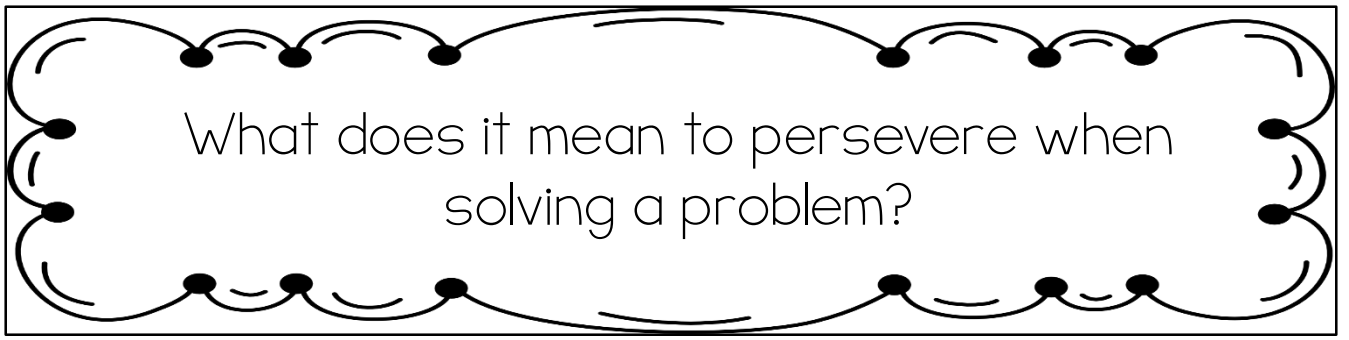
<u>5 Prompts Per Page Version:</u> Use this version to save copies. The students would cut and paste the prompt to their notebooks and then write underneath the prompt.

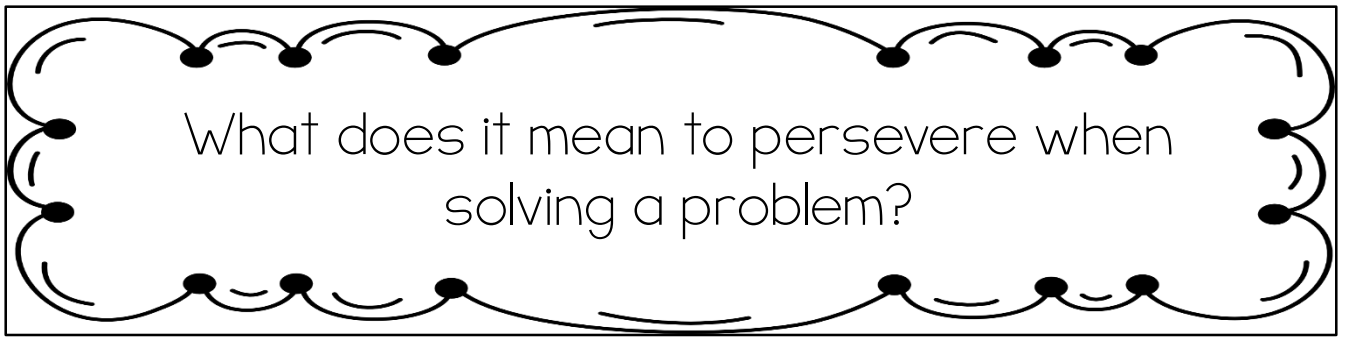
I can make sense of problems and persevere in solving them.

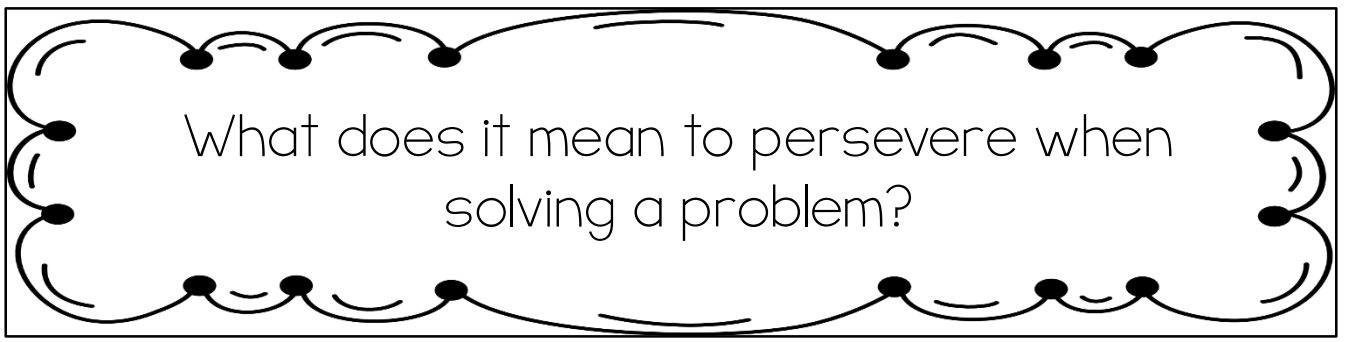
CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them.

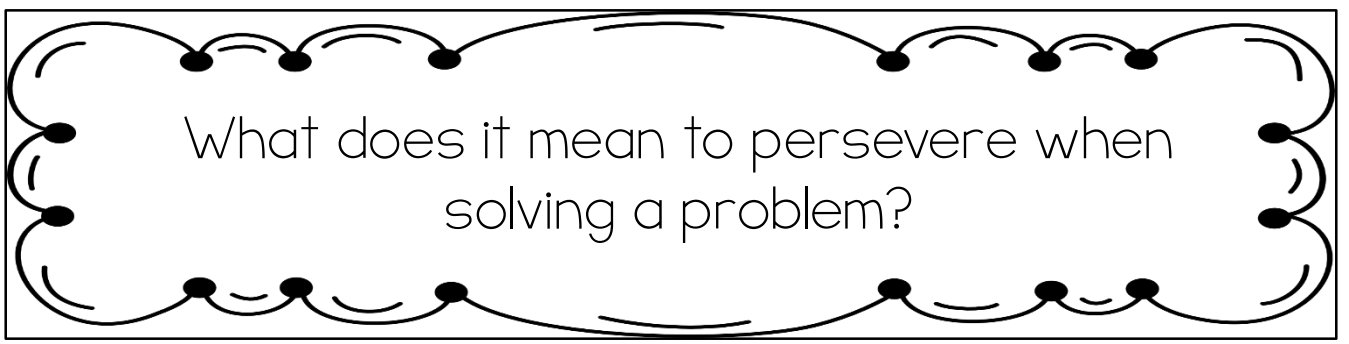
What does it mean to persevere when solving a problem?

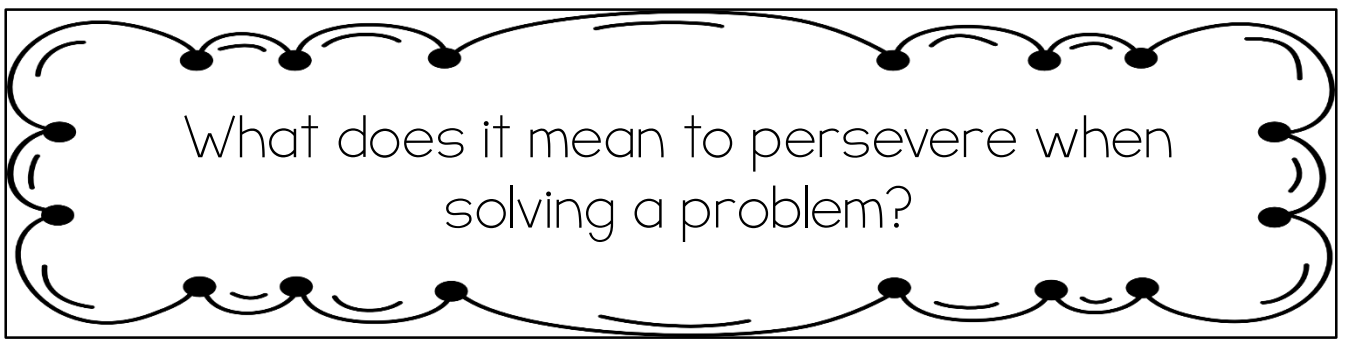
CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them.







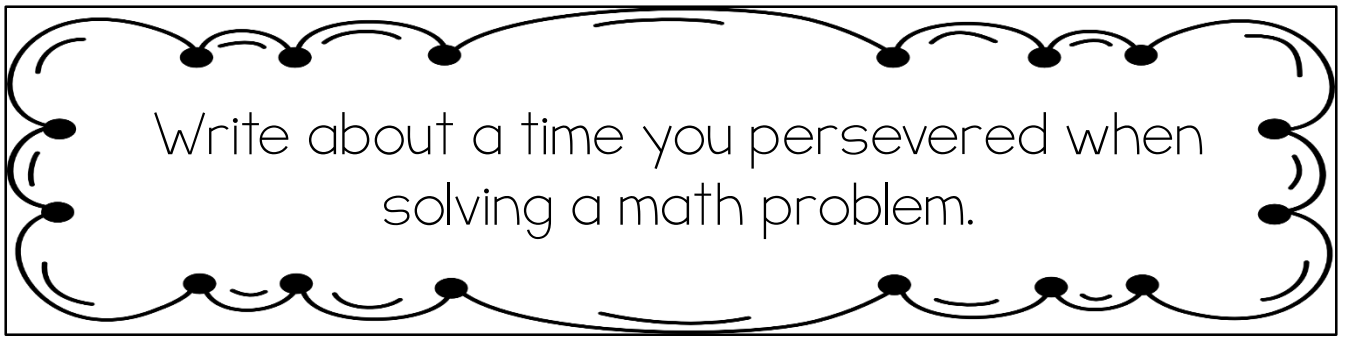


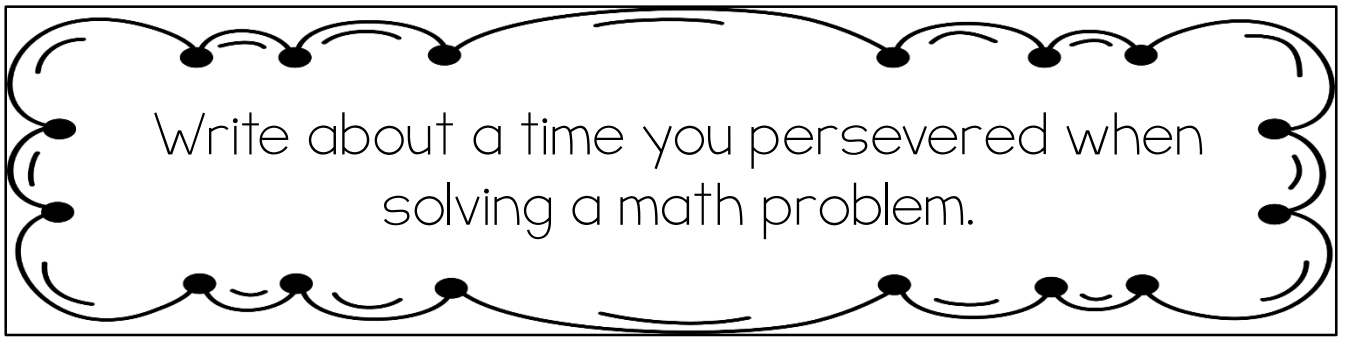


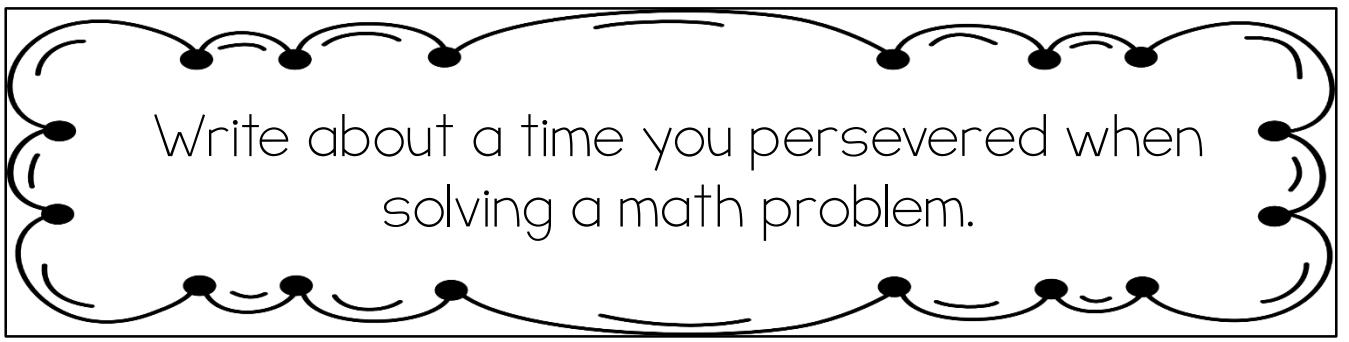
CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them.

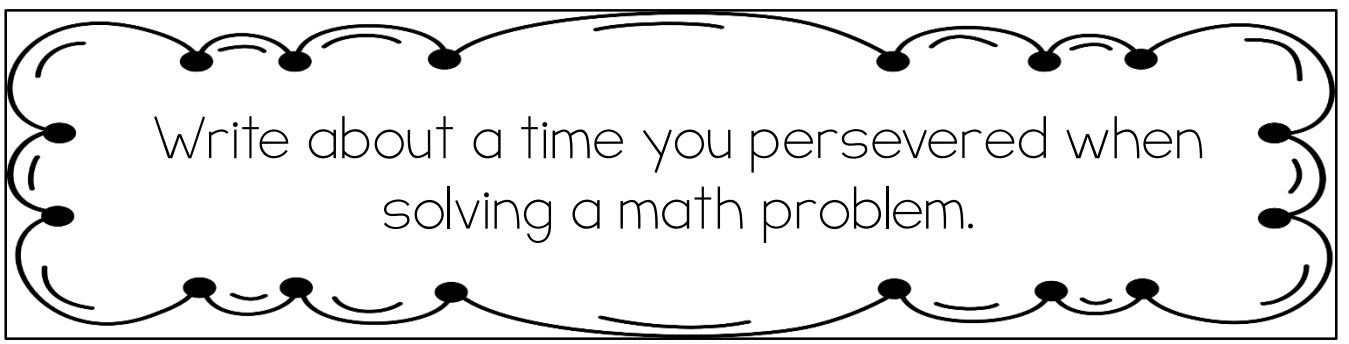
Write about a time you persevered when solving a math problem.

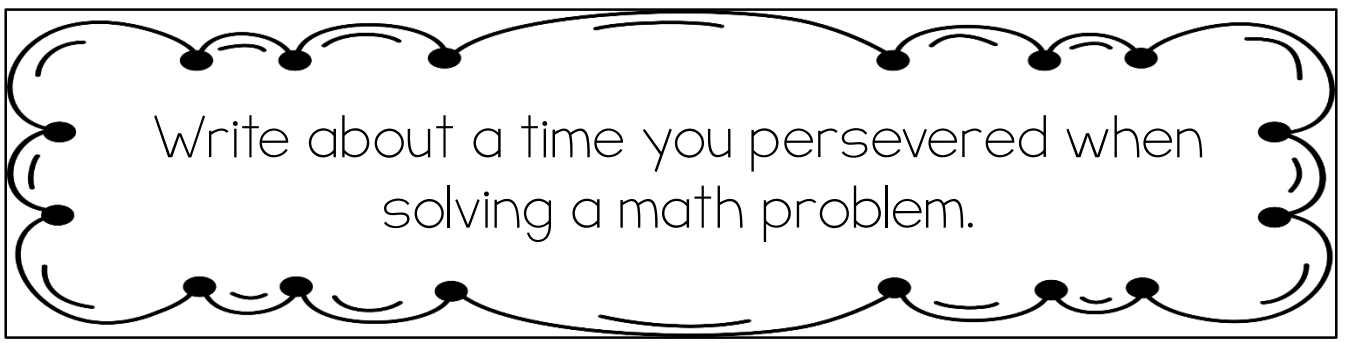
CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them.







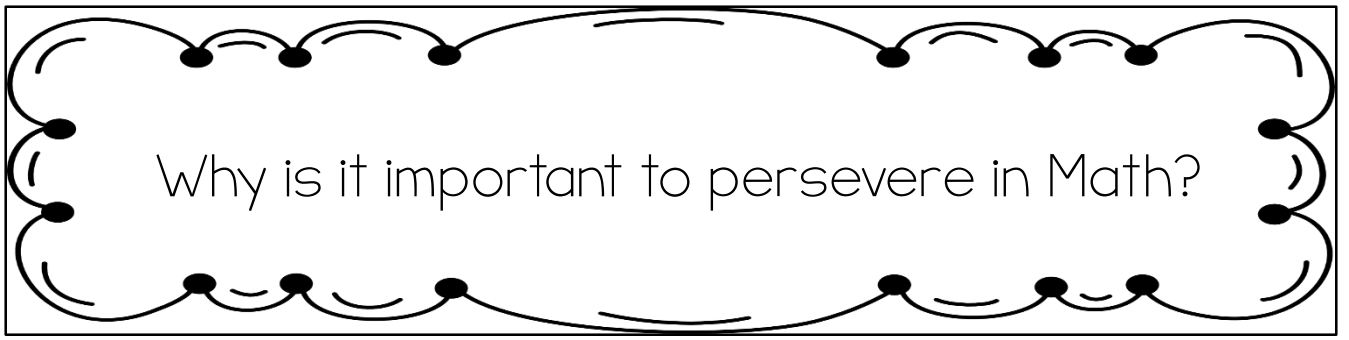


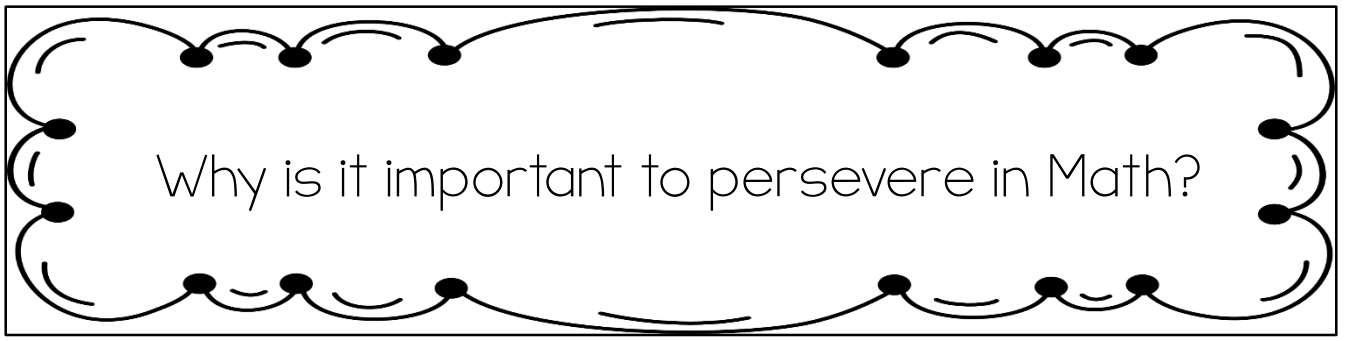


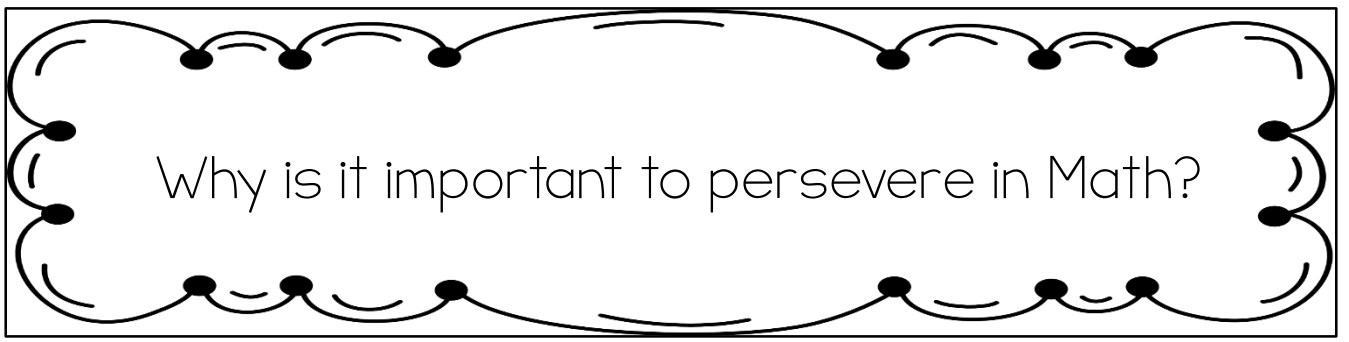
CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them.

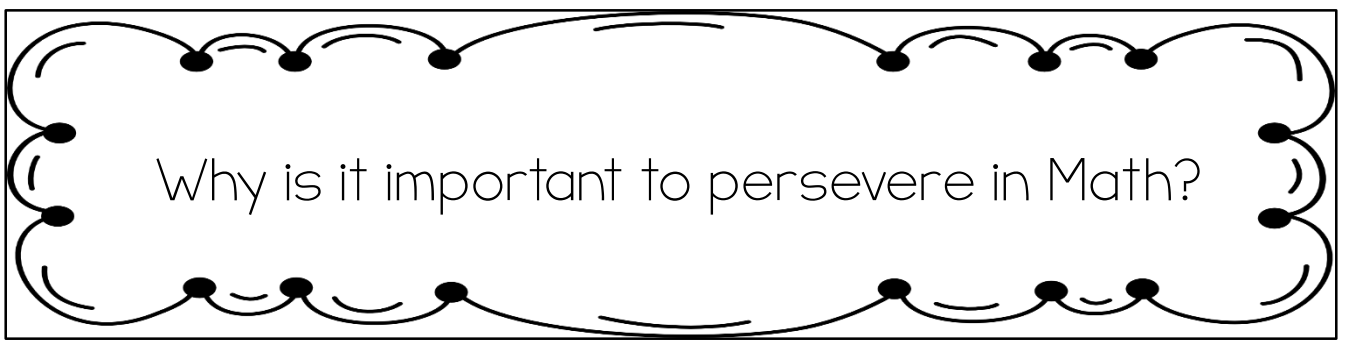
Why is it important to persevere in Math?

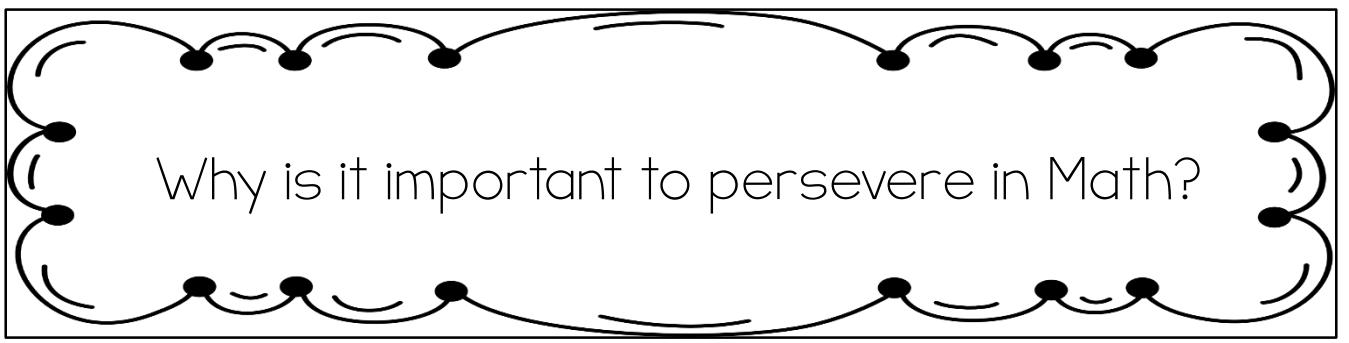
CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them.











CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them.

What does it mean to "make sense of a problem"?

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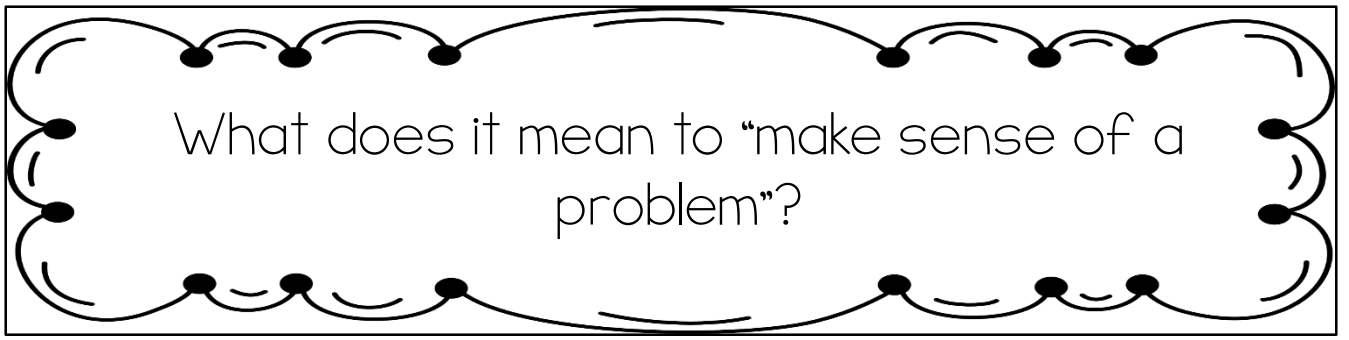

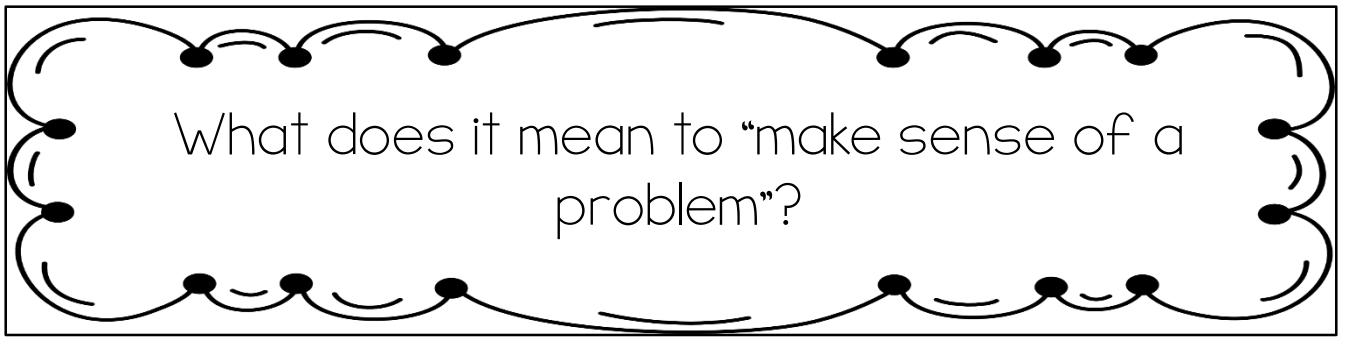

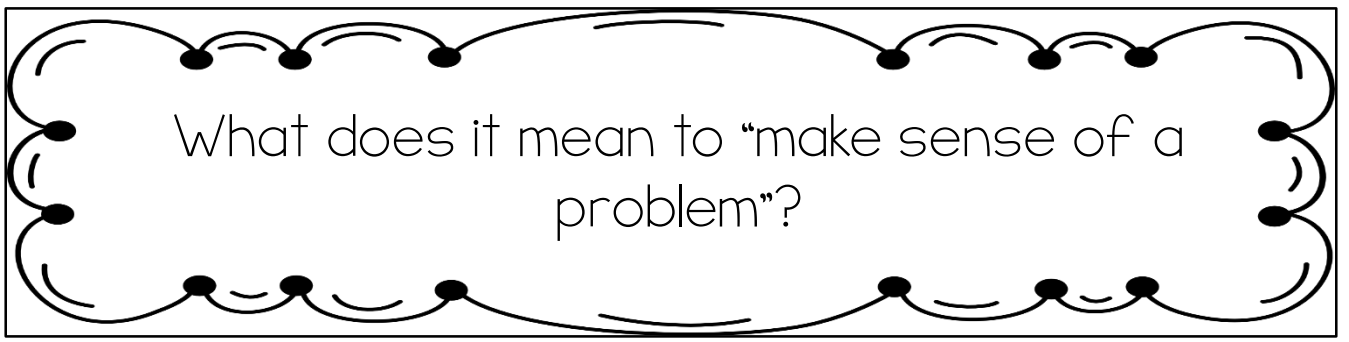

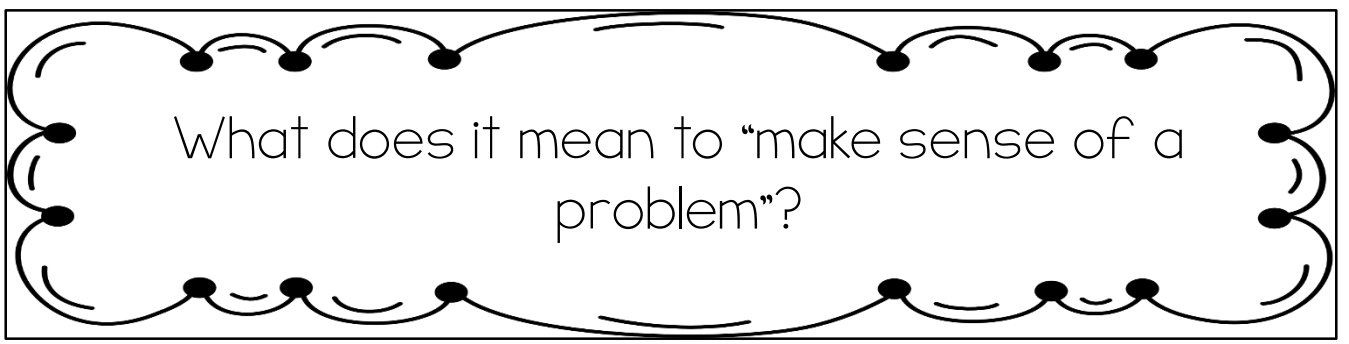

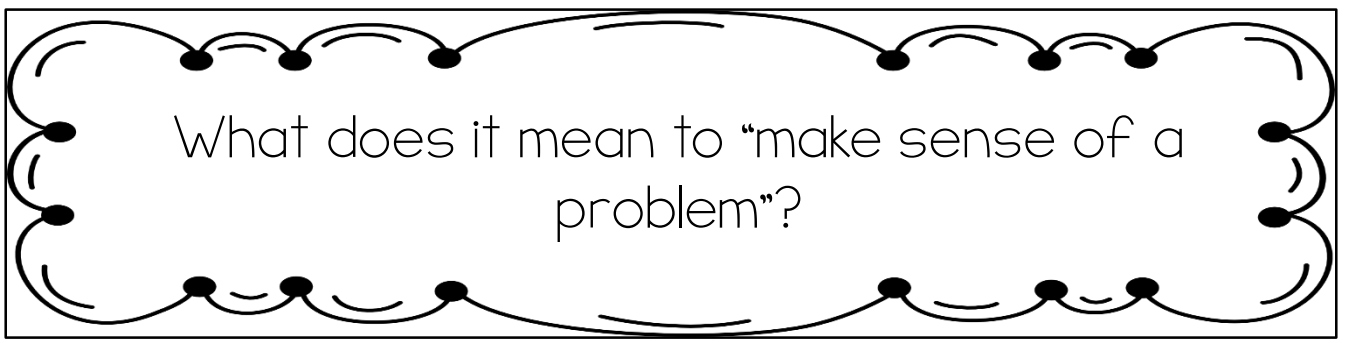

CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them.

Why is it important to make sense of problems before attempting to solve them?

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CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them.

What are some strategies you can use to help you understand or make sense of a problem?

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Write about a time you had difficulty making sense of a math problem. What did you do?

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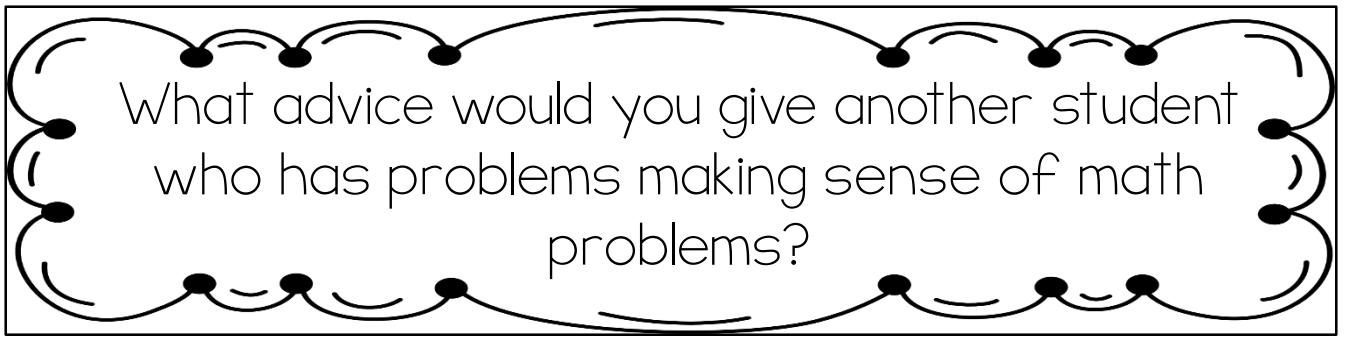
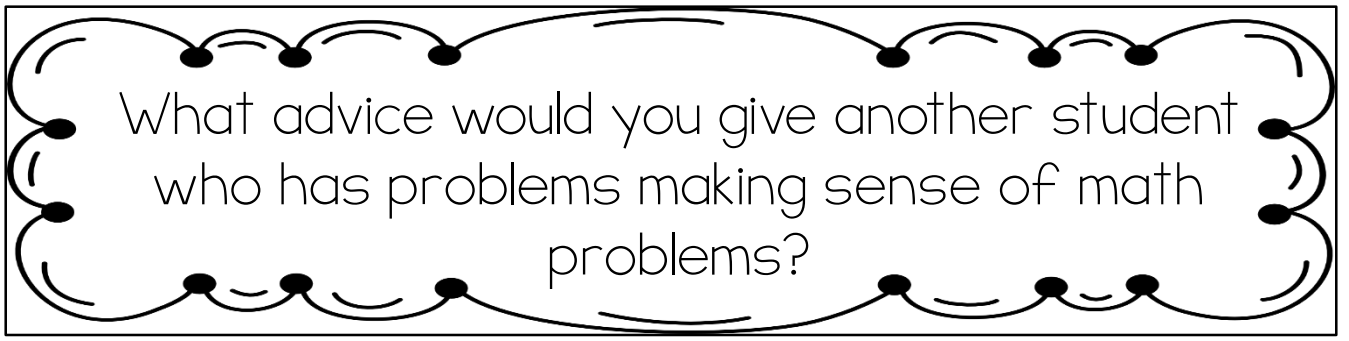
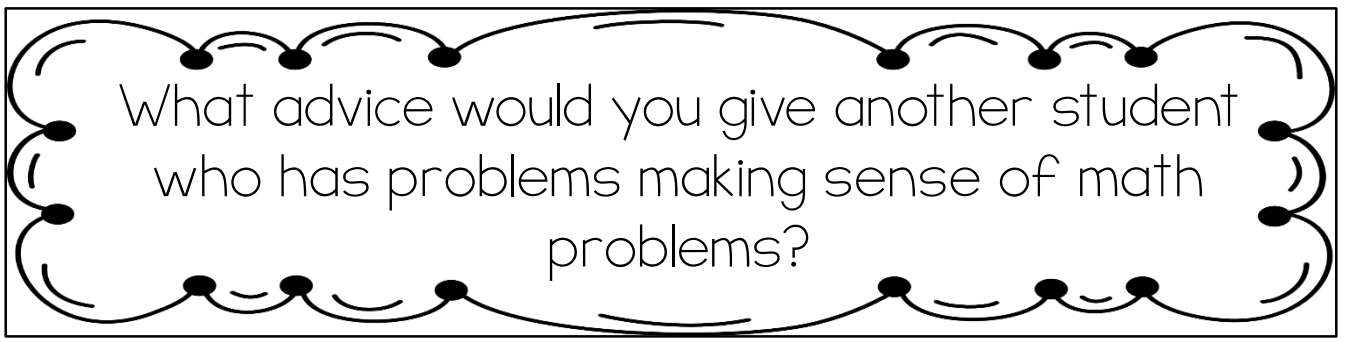
CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them.

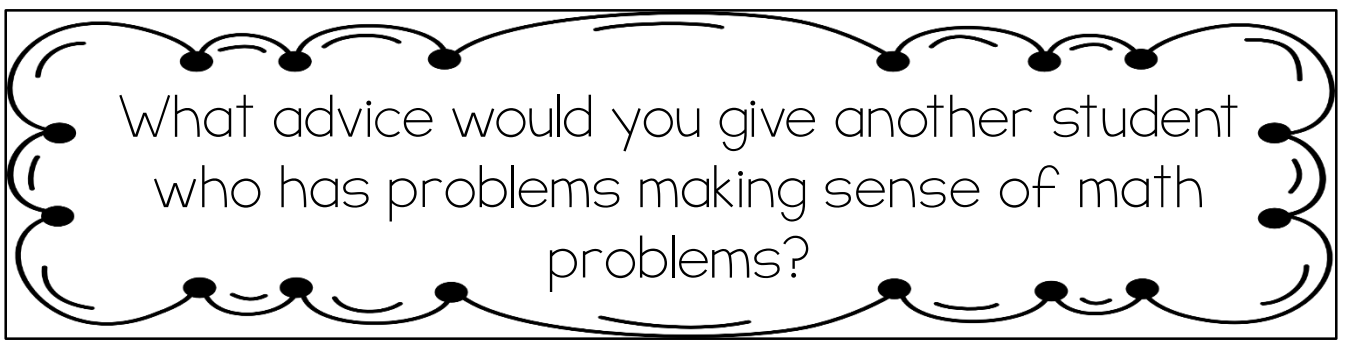
What advice would you give another student who has problems making sense of math problems?

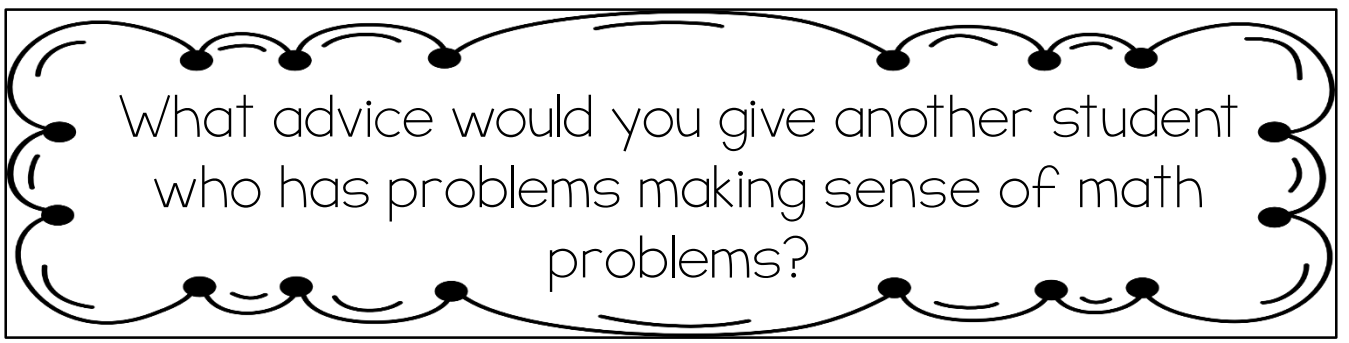
CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them.











CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them.

Why is it important to ask yourself if your answer makes sense after solving a problem?

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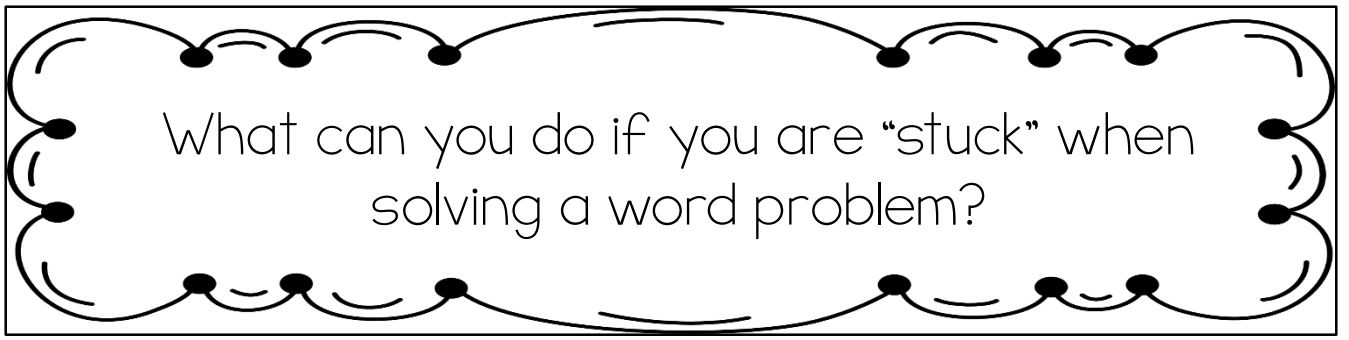
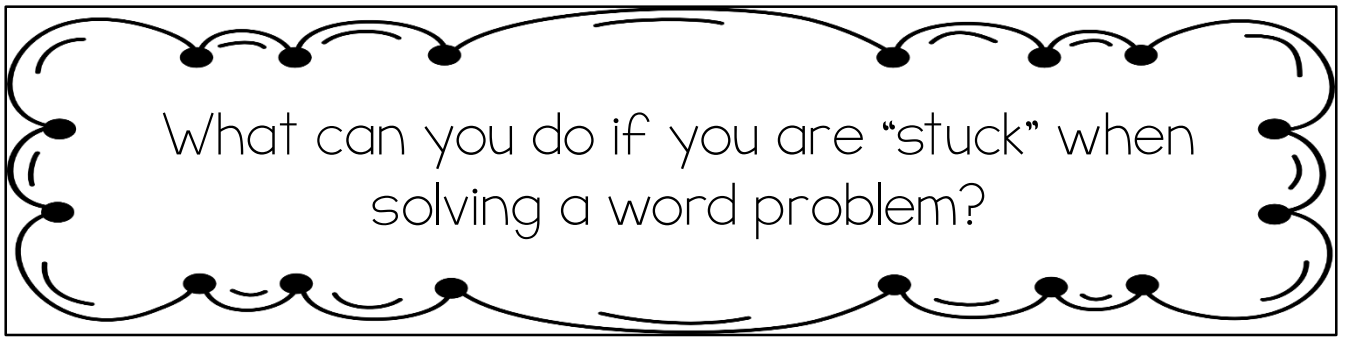
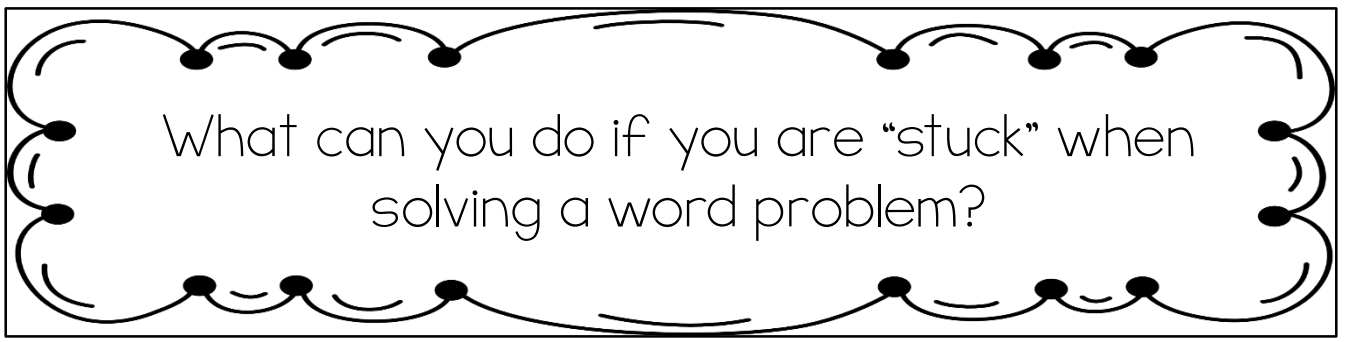
CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them.

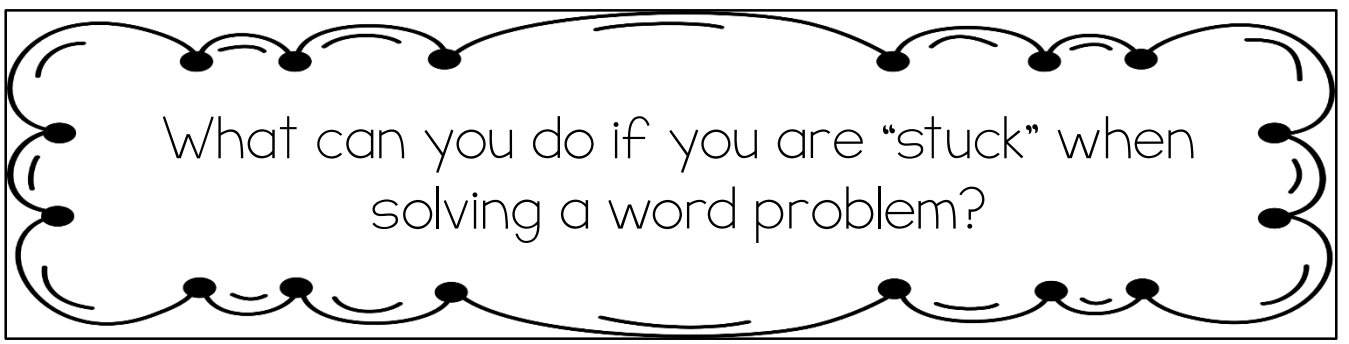
What can you do if you are "stuck" when solving a word problem?

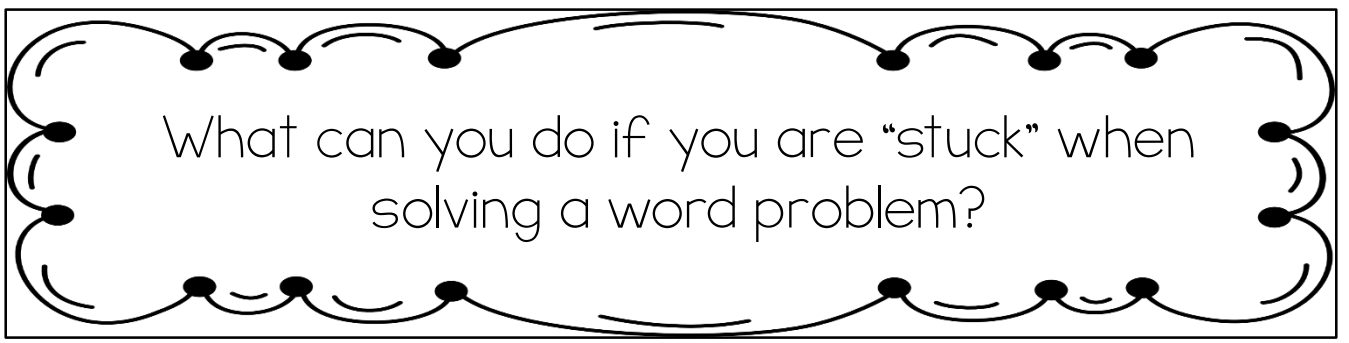
CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them.











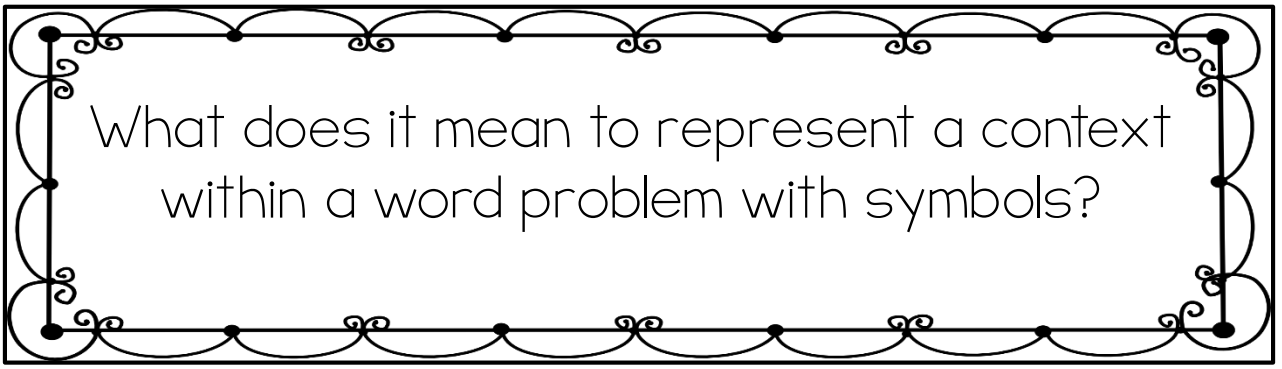
CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them.

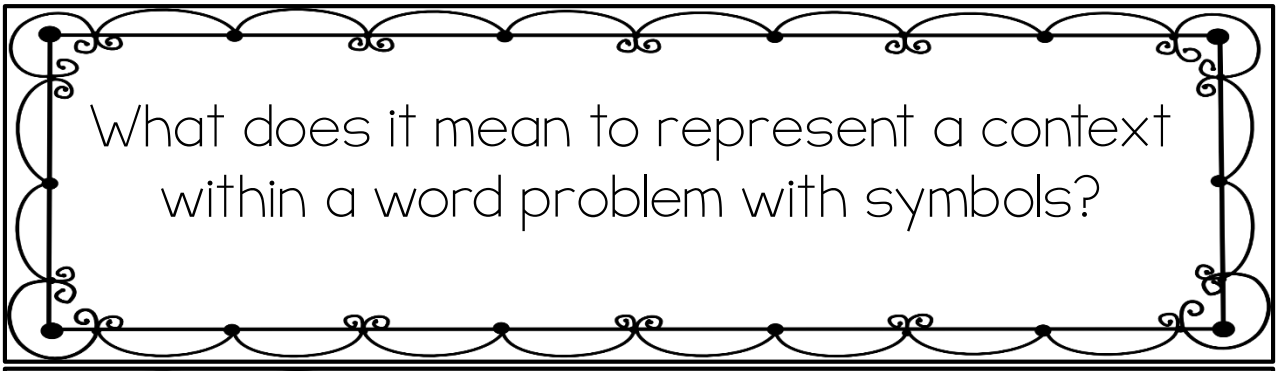
I can reason abstractly and quantitatively or make sense of quantities.

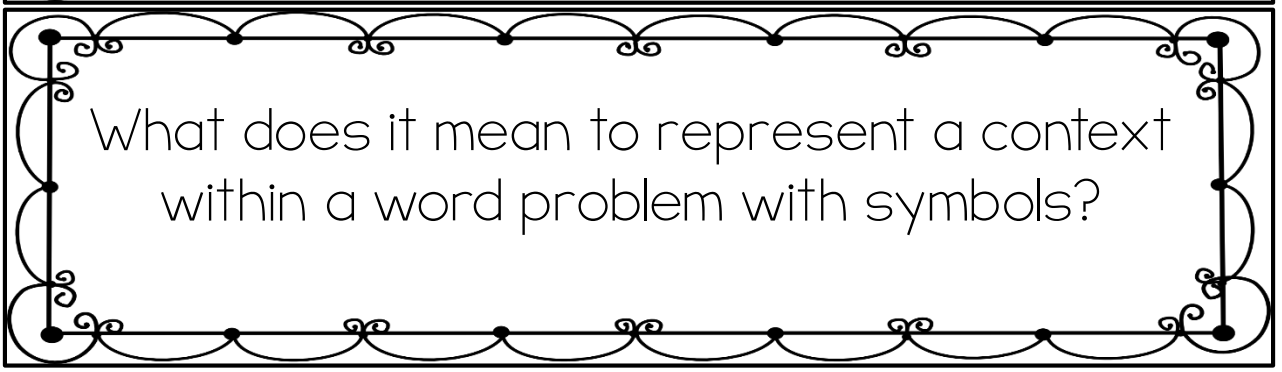
CCSS.Math.Practice.MP2 Reason abstractly and quantitatively.

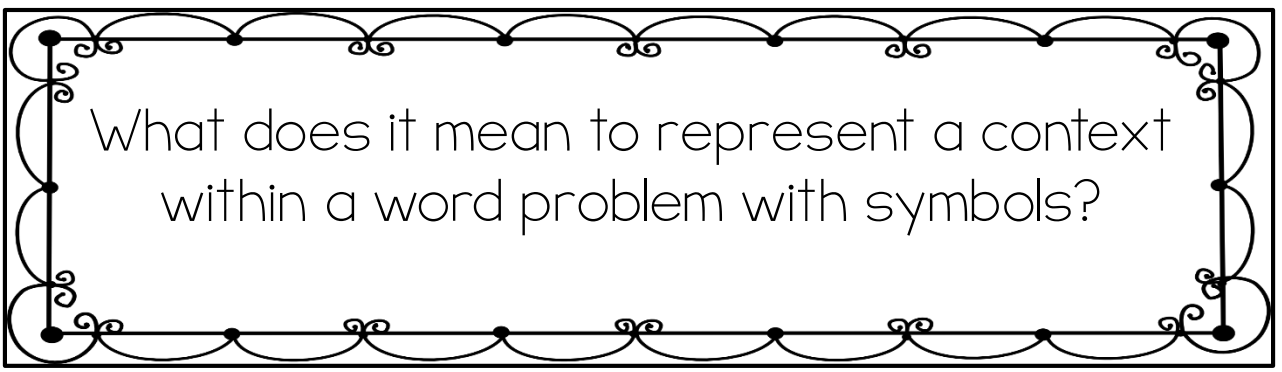
What does it mean to represent a context within a word problem with symbols?

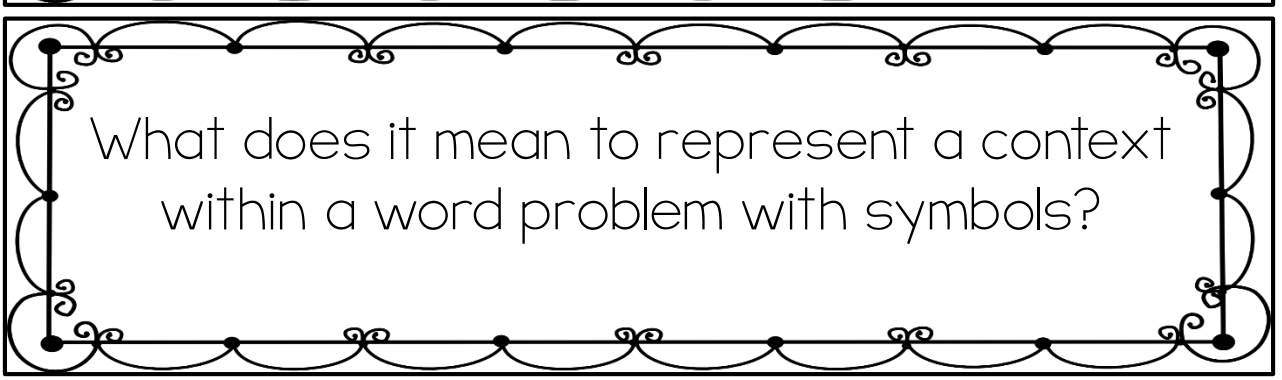
CCSS.Math.Practice.MP2 Reason abstractly and quantitatively.







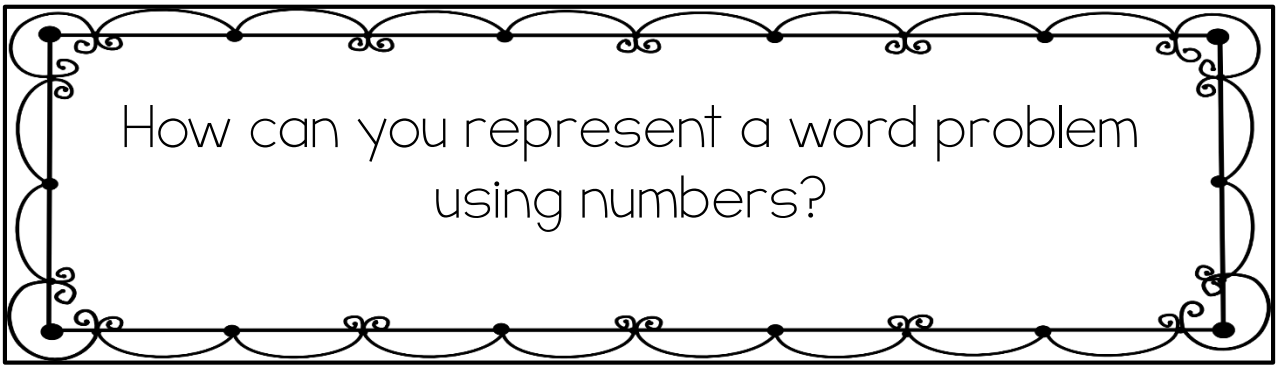


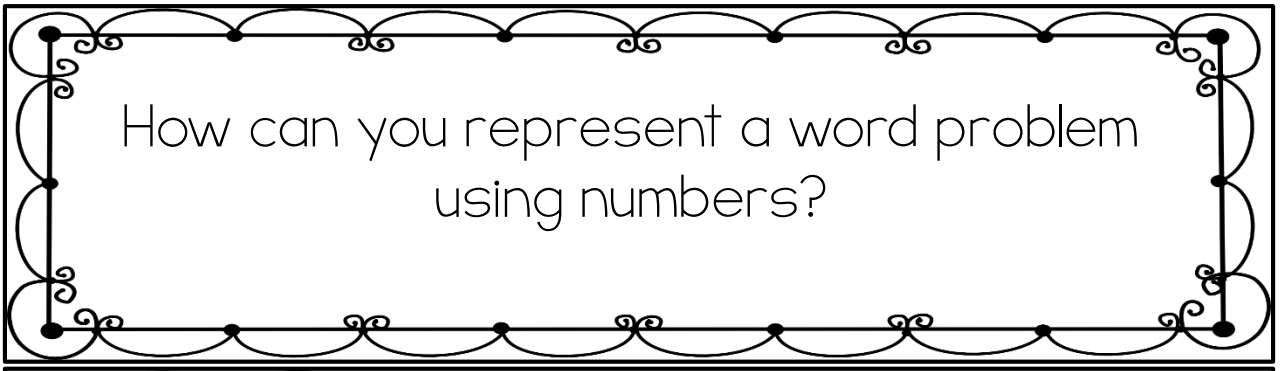


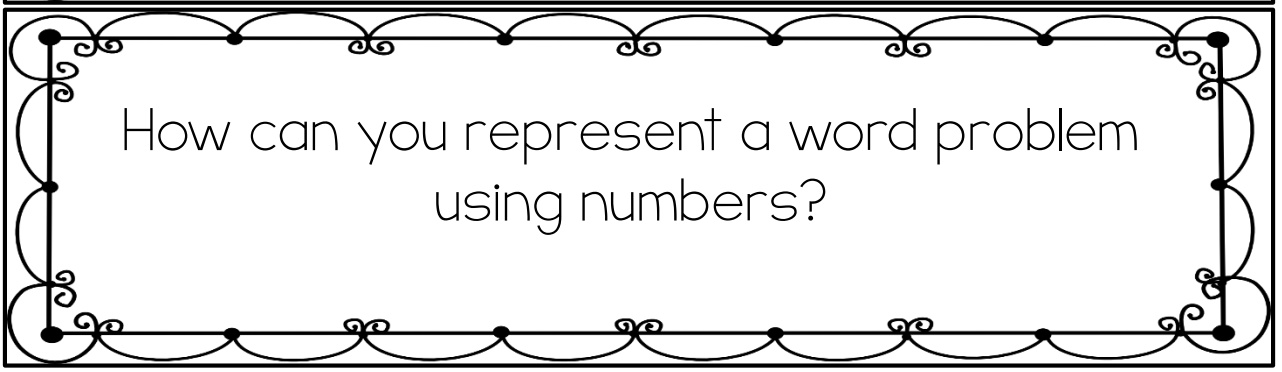
CCSS.Math.Practice.MP2 Reason abstractly and quantitatively.

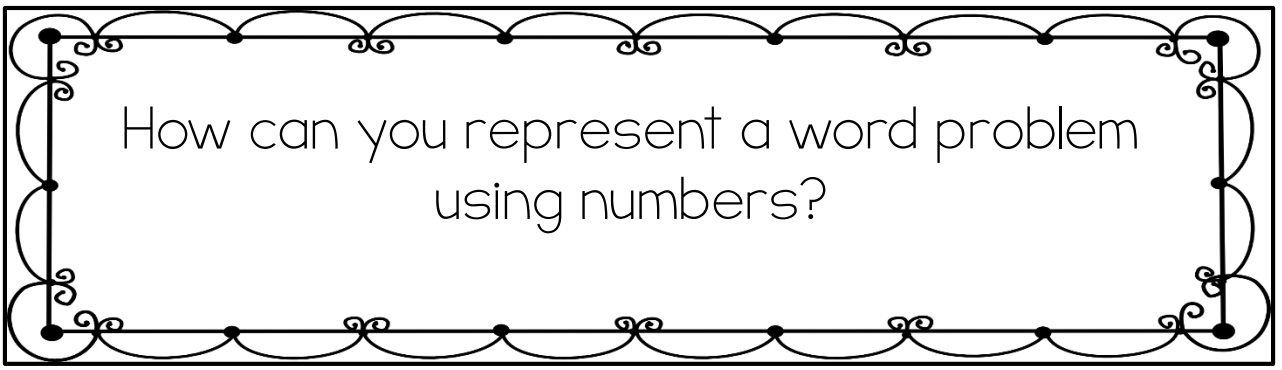
How can you represent a word problem using numbers?

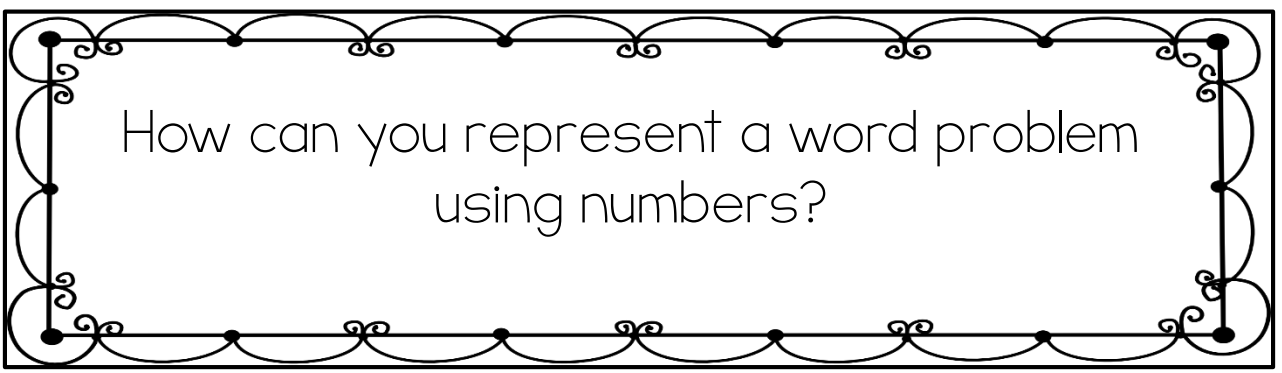
CCSS.Math.Practice.MP2 Reason abstractly and quantitatively.











CCSS.Math.Practice.MP2 Reason abstractly and quantitatively.

How can you represent a word problem using symbols?

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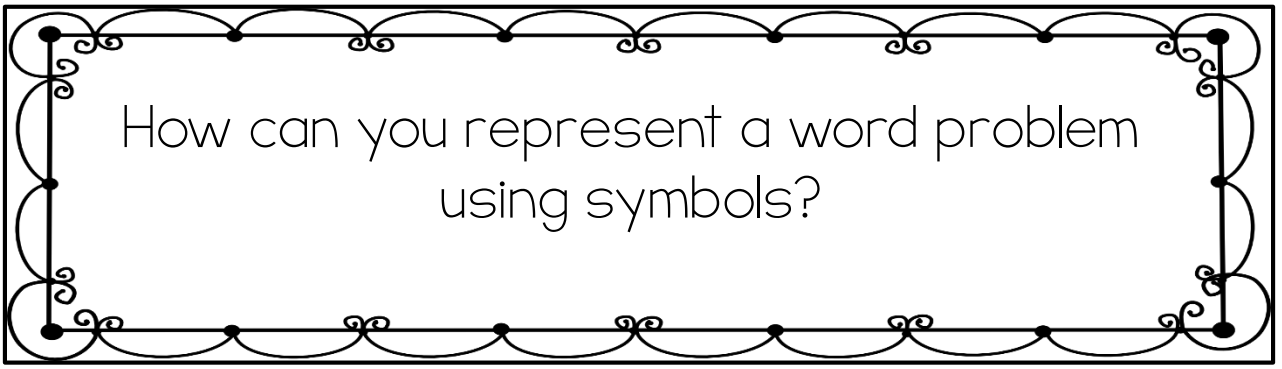

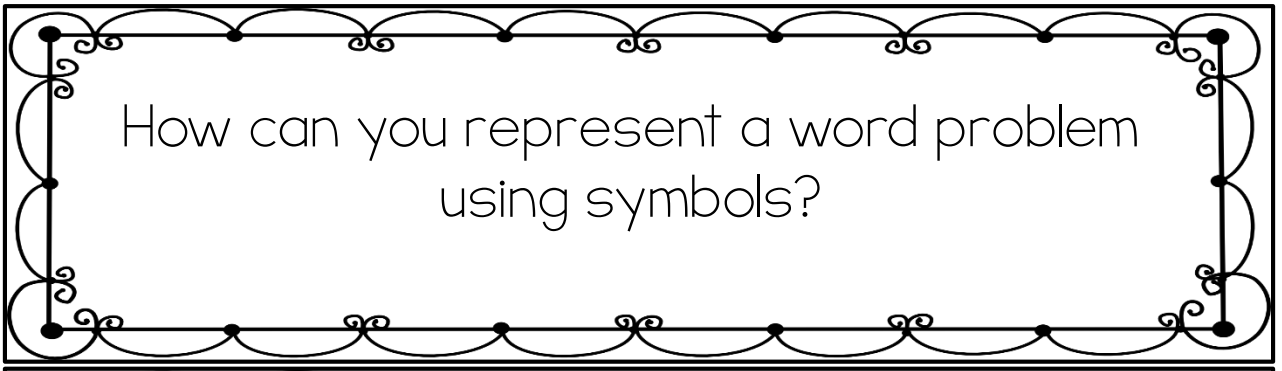

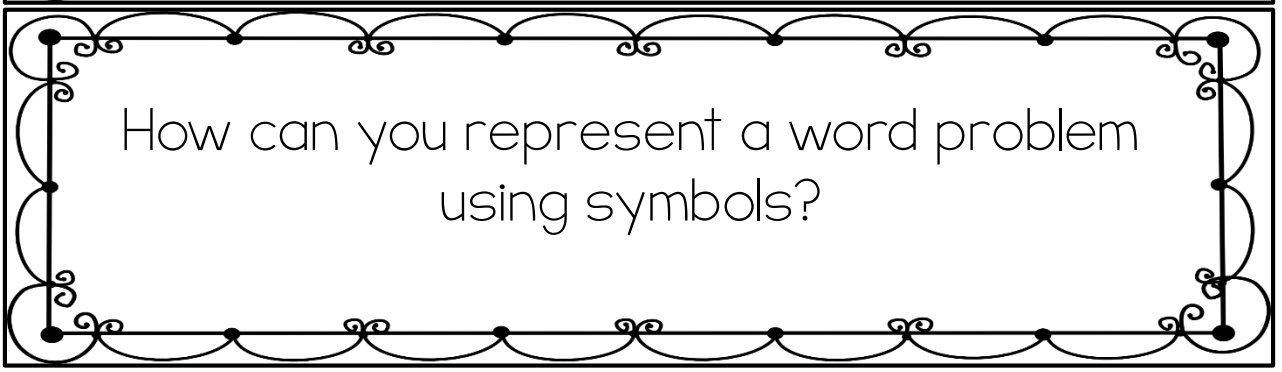

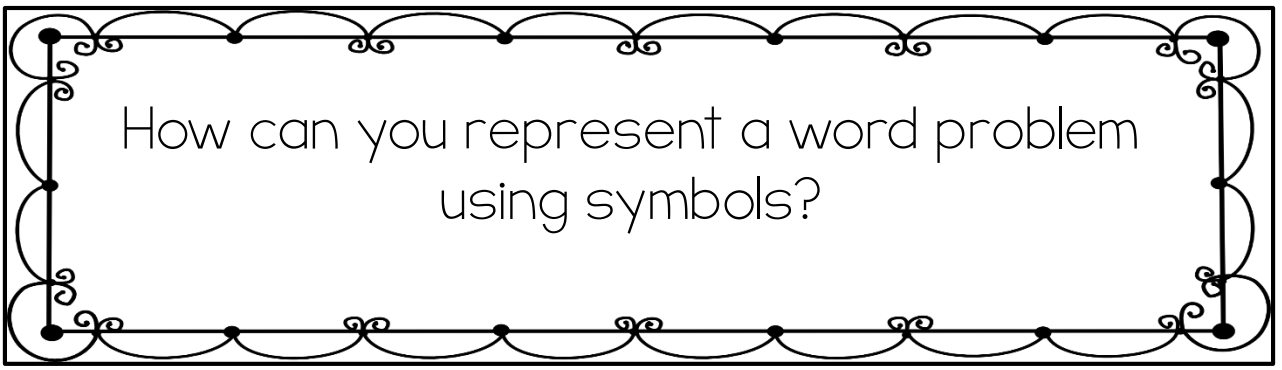

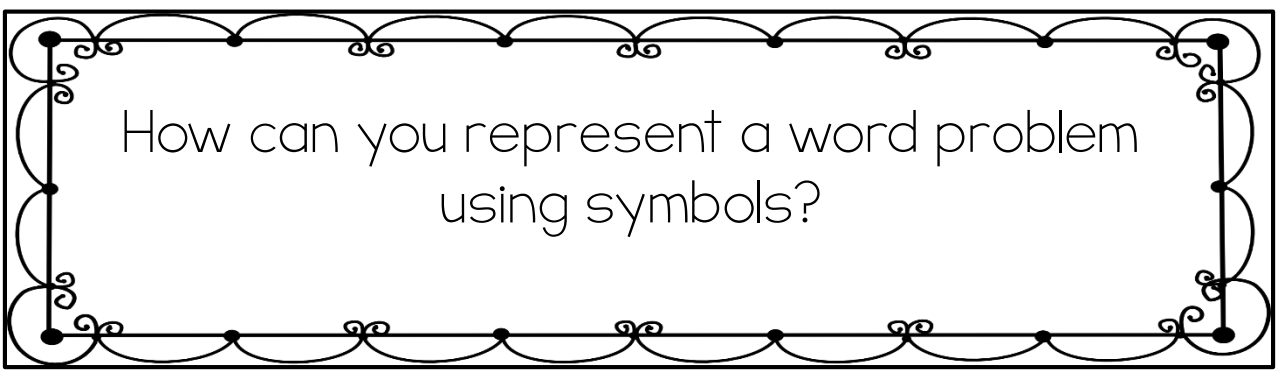

CCSS.Math.Practice.MP2 Reason abstractly and quantitatively.

When given an equation, what steps do you take to create a story problem for the equation?

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CCSS.Math.Practice.MP2 Reason abstractly and quantitatively.

Create a story problem and solve for 19,965 - 6,652.

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CCSS.Math.Practice.MP2 Reason abstractly and quantitatively.

Create a story problem and solve for 98,598 + 3,596.

CCSS.Math.Practice.MP2 Reason abstractly and quantitatively.

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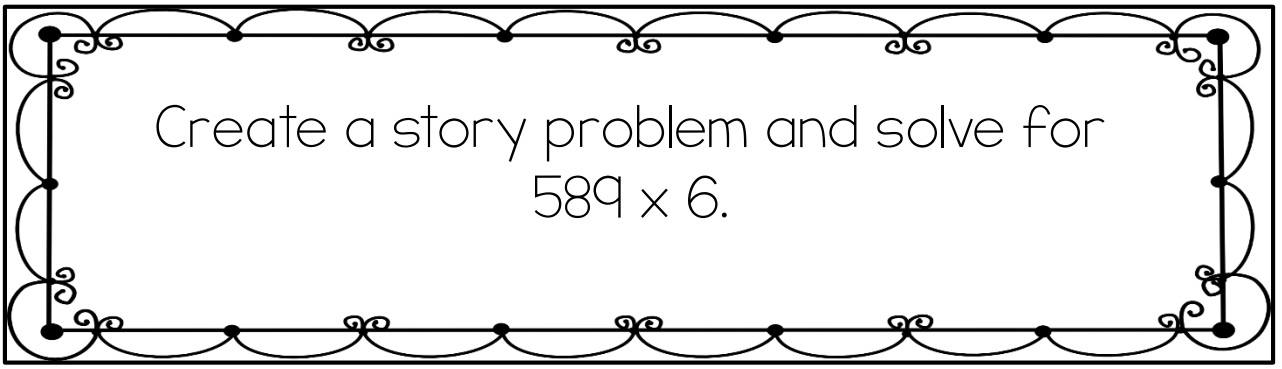
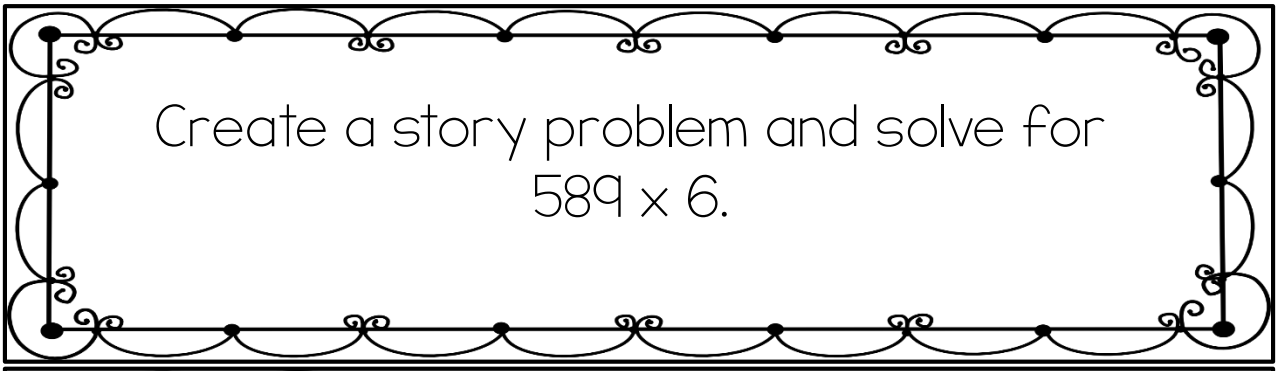
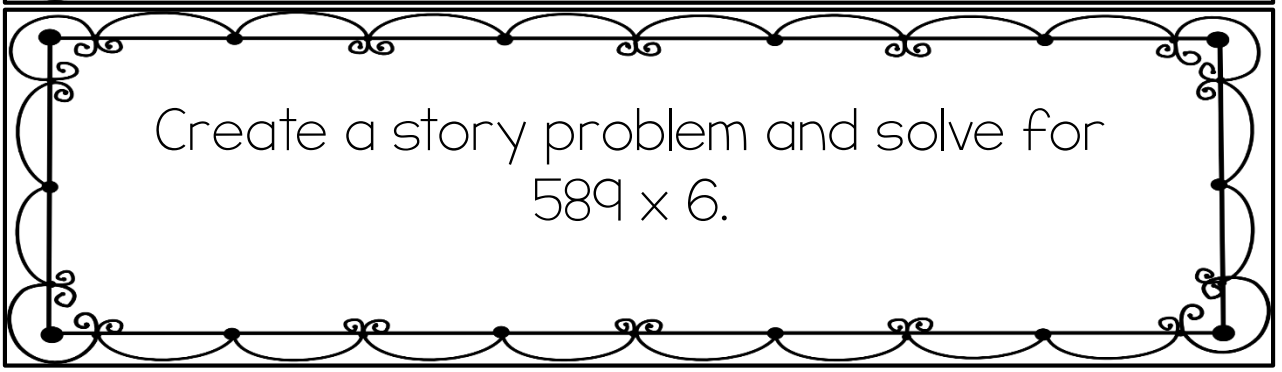
CCSS.Math.Practice.MP2 Reason abstractly and quantitatively.

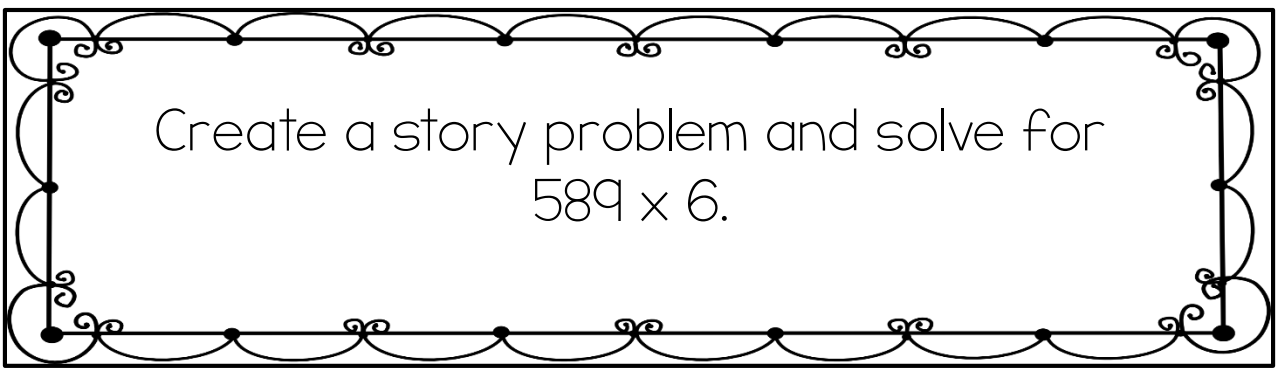
Create a story problem and solve for 589 x 6.

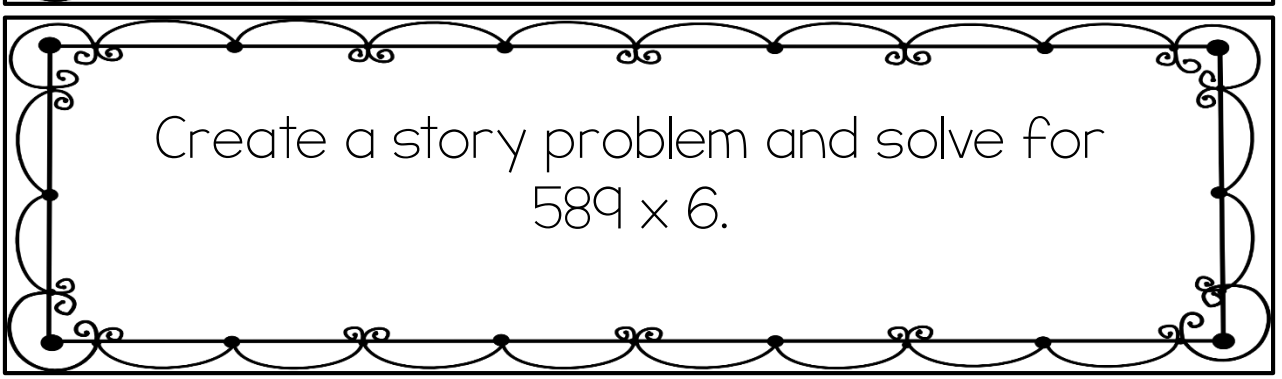
CCSS.Math.Practice.MP2 Reason abstractly and quantitatively.











CCSS.Math.Practice.MP2 Reason abstractly and quantitatively.

Create a story problem and solve for 246 ÷ 2.

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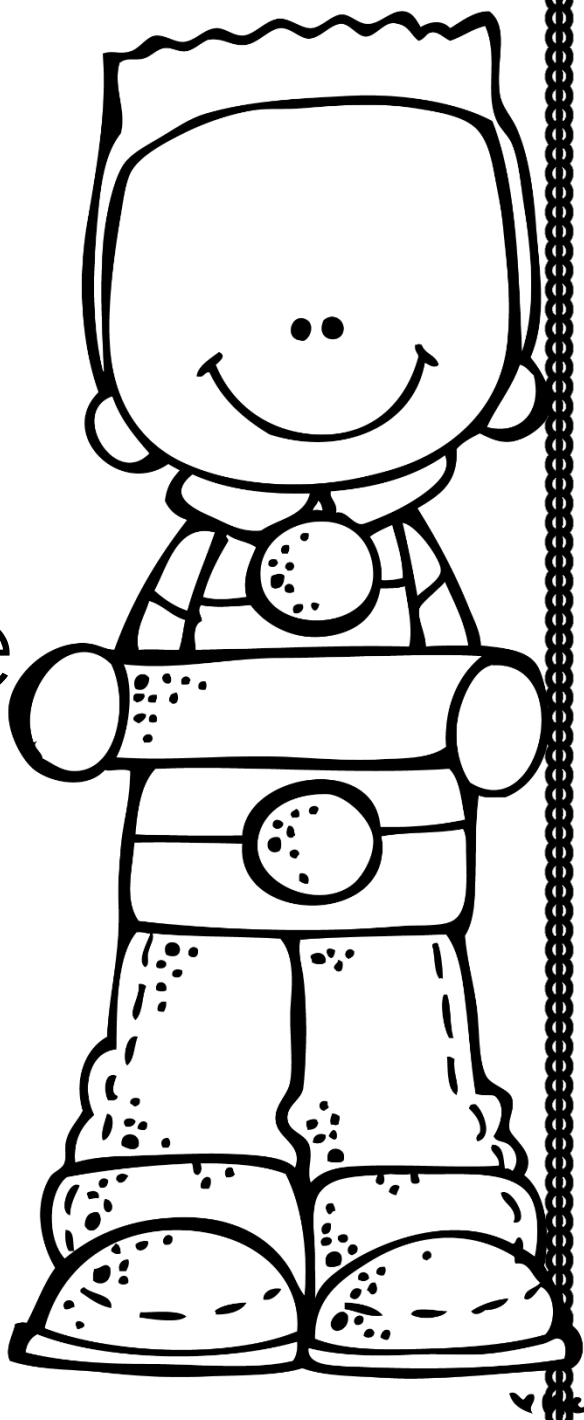
CCSS.Math.Practice.MP2 Reason abstractly and quantitatively.

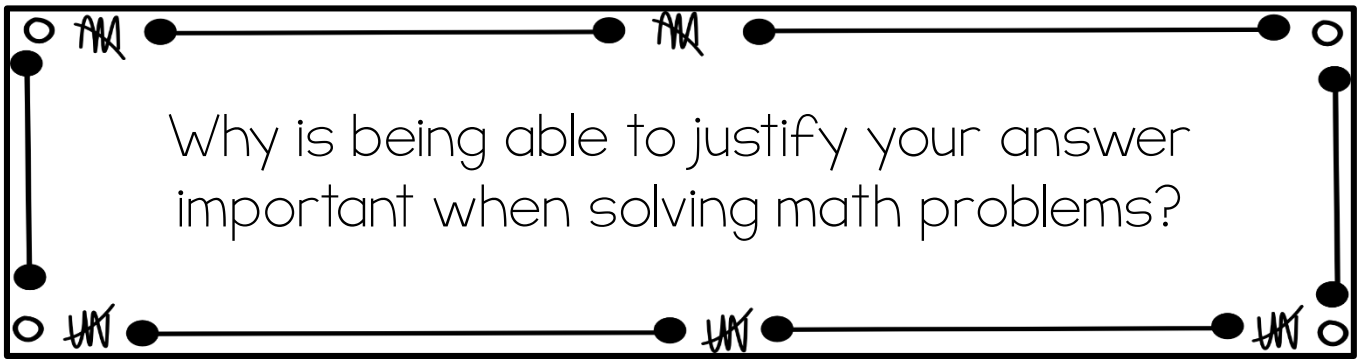
I can construct viable arguments and critique the reasoning of others.

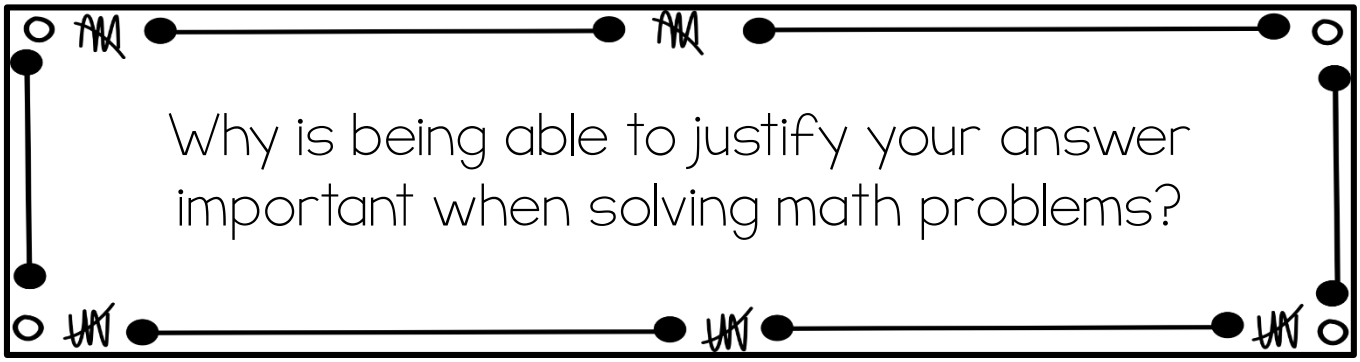


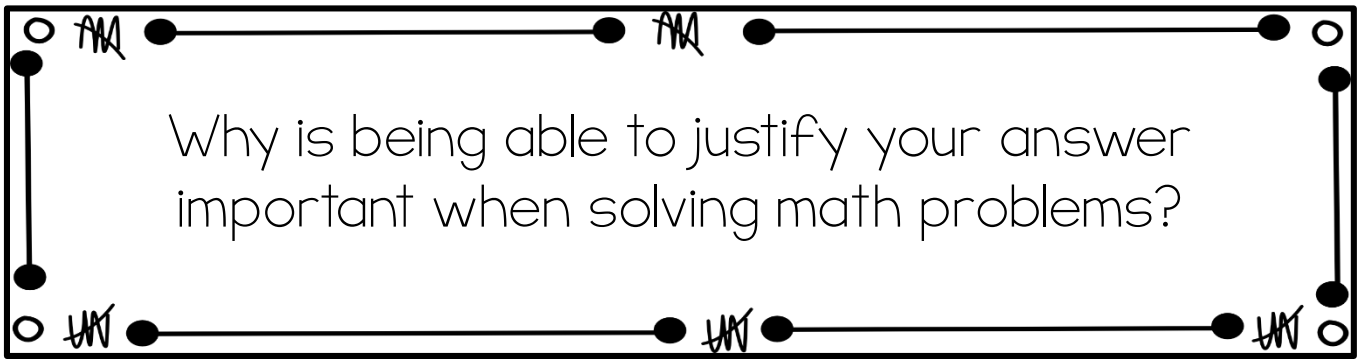
CCSS.Math.Practice.MP3 Construct viable arguments and critique the reasoning of others.

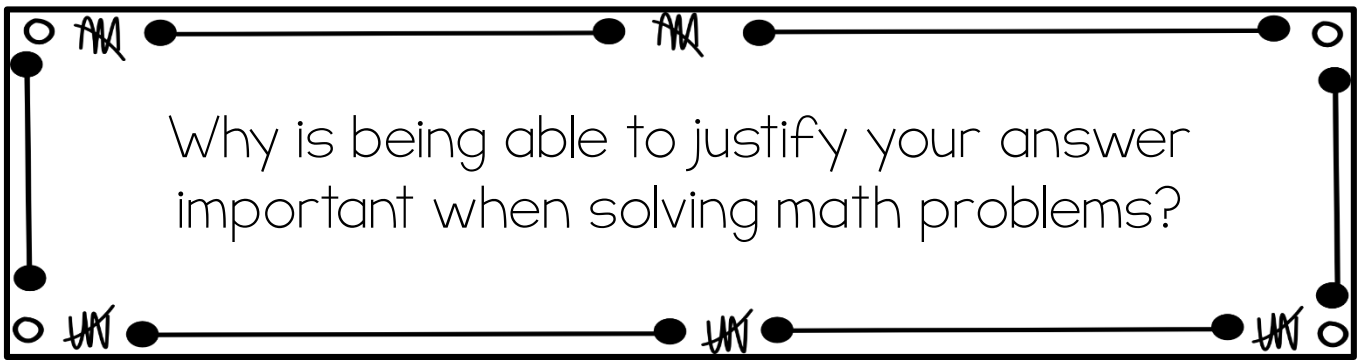
Why is being able to justify your answer important when solving math problems?

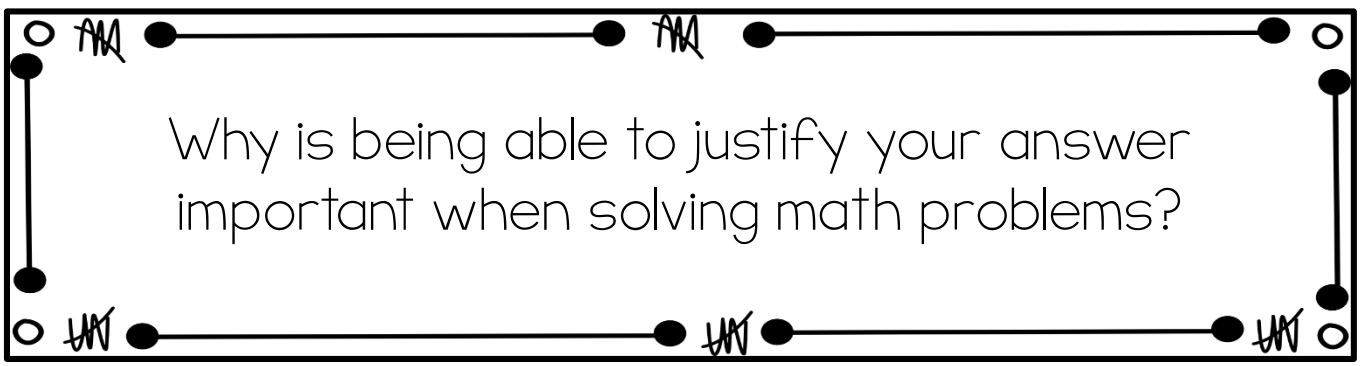
CCSS.Math.Practice.MP3 Construct viable arguments and critique the reasoning of others.







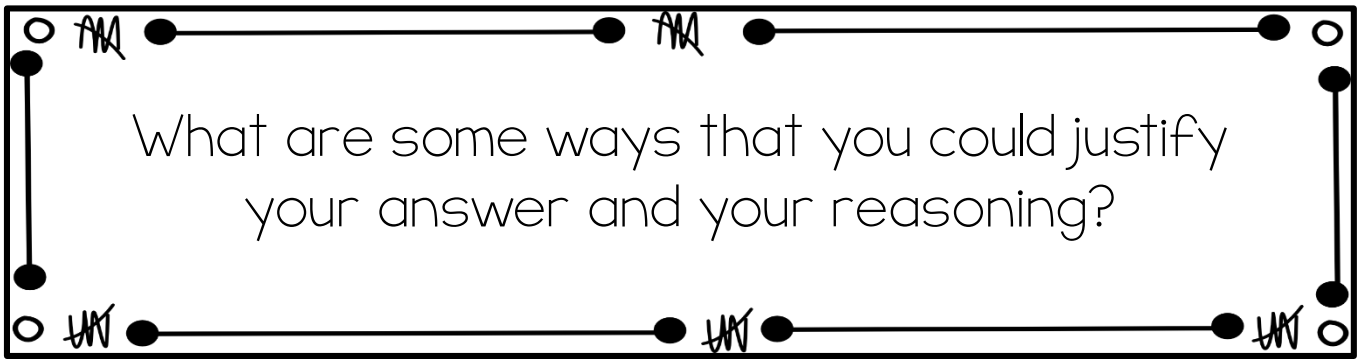


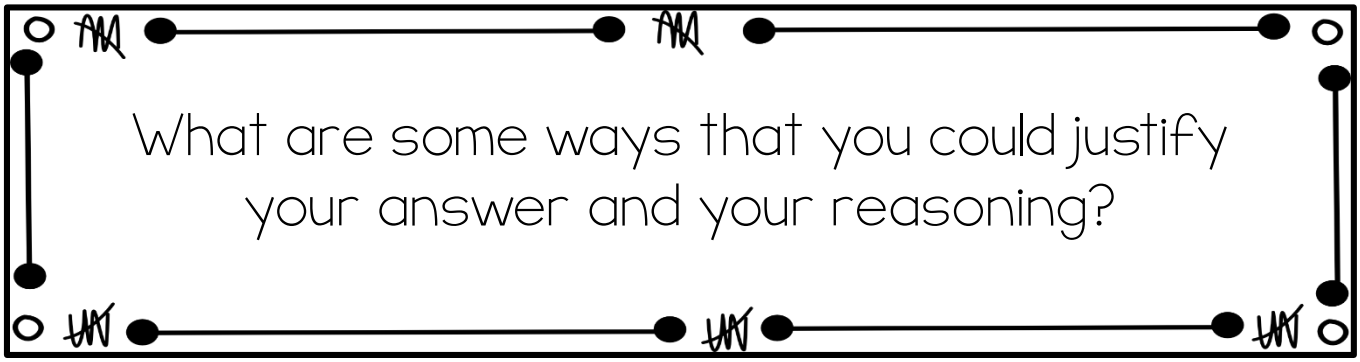


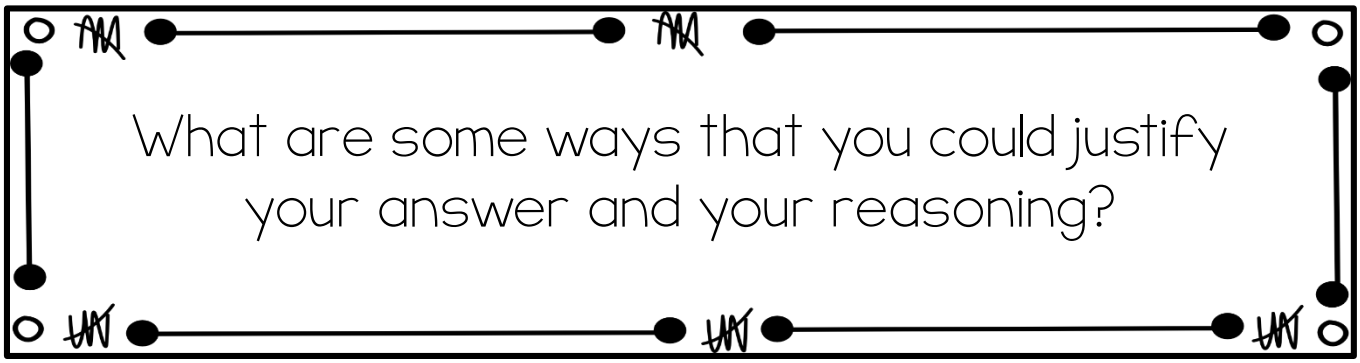
CCSS.Math.Practice.MP3 Construct viable arguments and critique the reasoning of others.

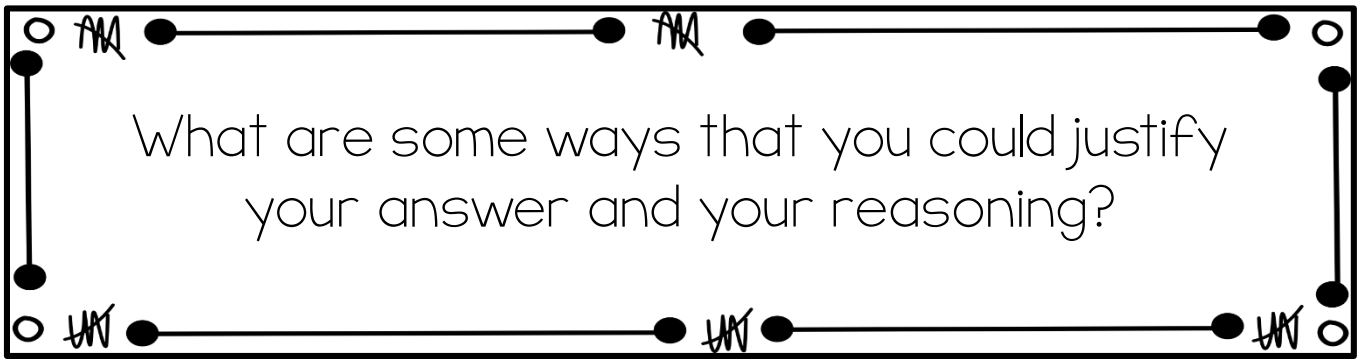
What are some ways that you could justify your answer and your reasoning?

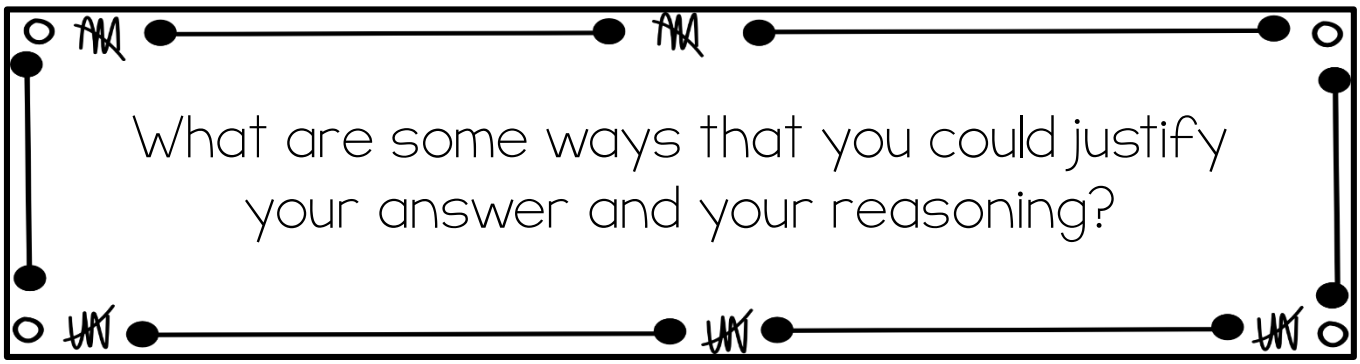
CCSS.Math.Practice.MP3 Construct viable arguments and critique the reasoning of others.











CCSS.Math.Practice.MP3 Construct viable arguments and critique the reasoning of others.

Do you prefer to justify your answer with words, objects, or pictures? Explain the reason for your choice.

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Write about a time you had to defend your answer to a math problem. How did you go about defending your answer?

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CCSS.Math.Practice.MP3 Construct viable arguments and critique the reasoning of others.

When discussing a math problem with a peer, how do you make sure you understand the reasoning of the other person?

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Write about a time you had to defend your answer to a math problem. How did you go about defending your answer?

CCSS.Math.Practice.MP3 Construct viable arguments and critique the reasoning of others.

Do you think is important to be able to discuss math problems with others? Why or why?

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CCSS.Math.Practice.MP3 Construct viable arguments and critique the reasoning of others.

How can discussing math problems with peers help your understanding of math?

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CCSS.Math.Practice.MP3 Construct viable arguments and critique the reasoning of others.

When listening to others share their mathematical ideas, how do you decide if it makes sense?

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CCSS.Math.Practice.MP3 Construct viable arguments and critique the reasoning of others.

What evidence could be provided to prove your answer or reasoning?

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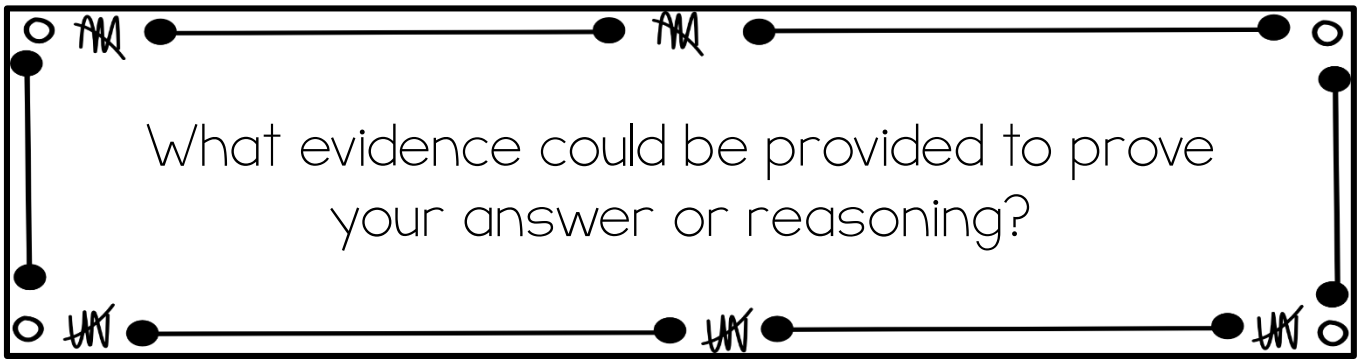
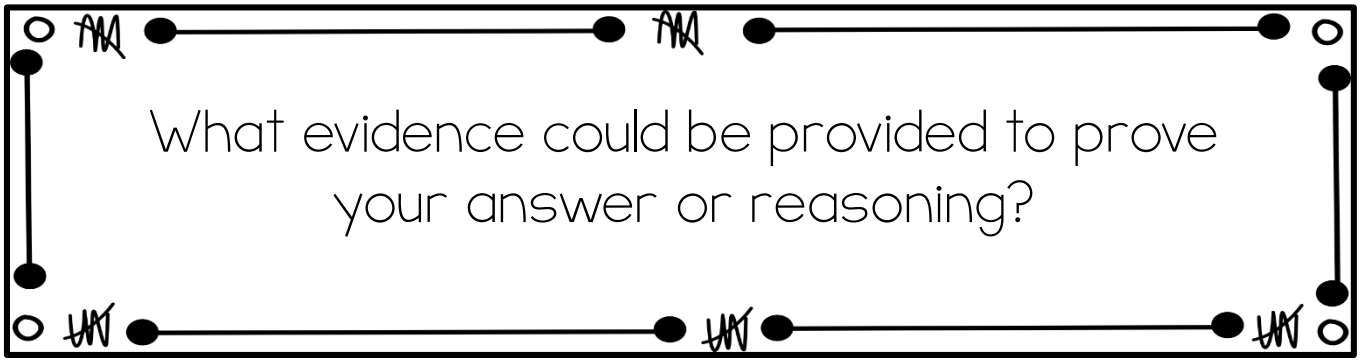
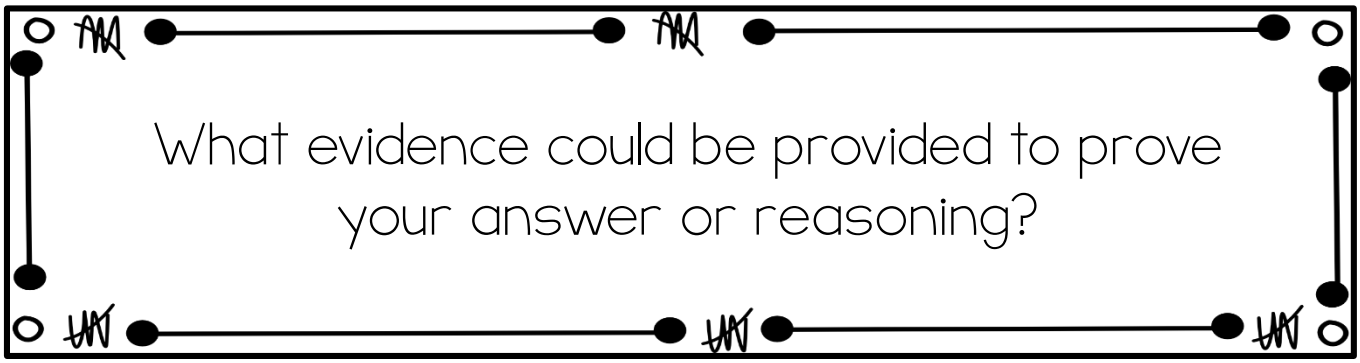
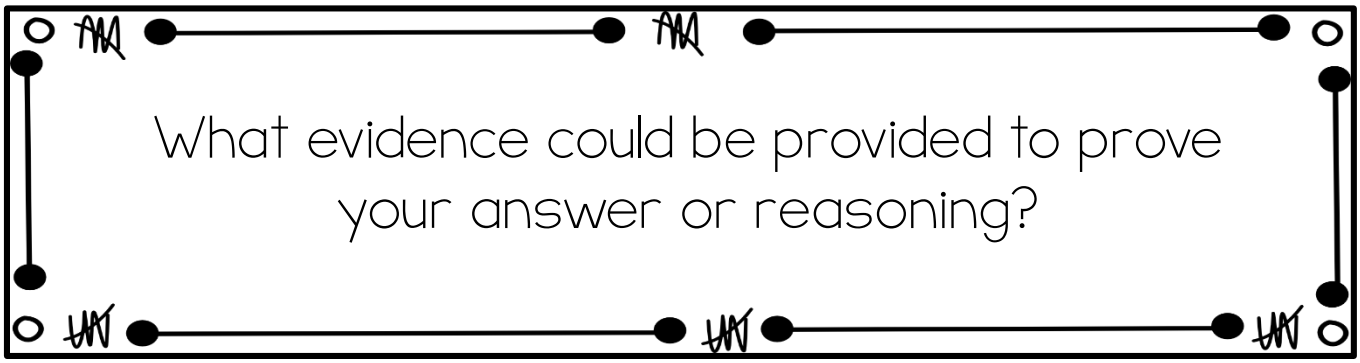
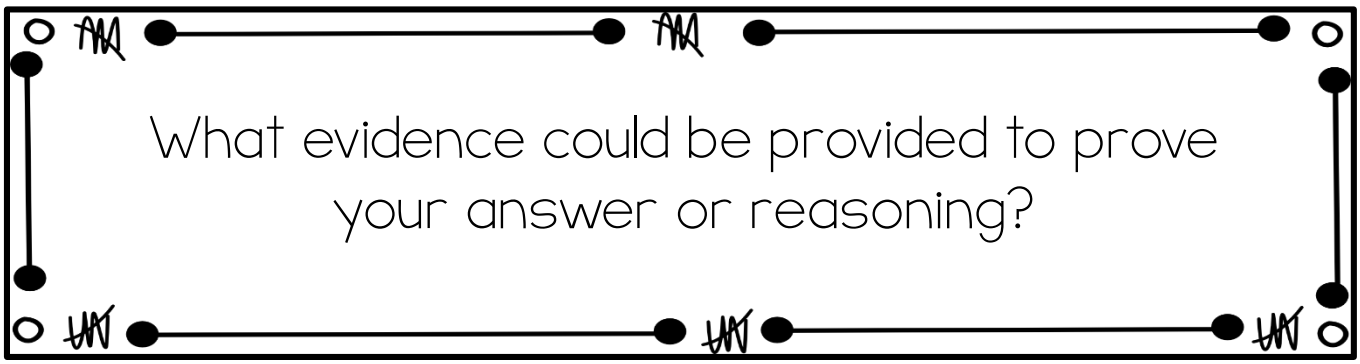




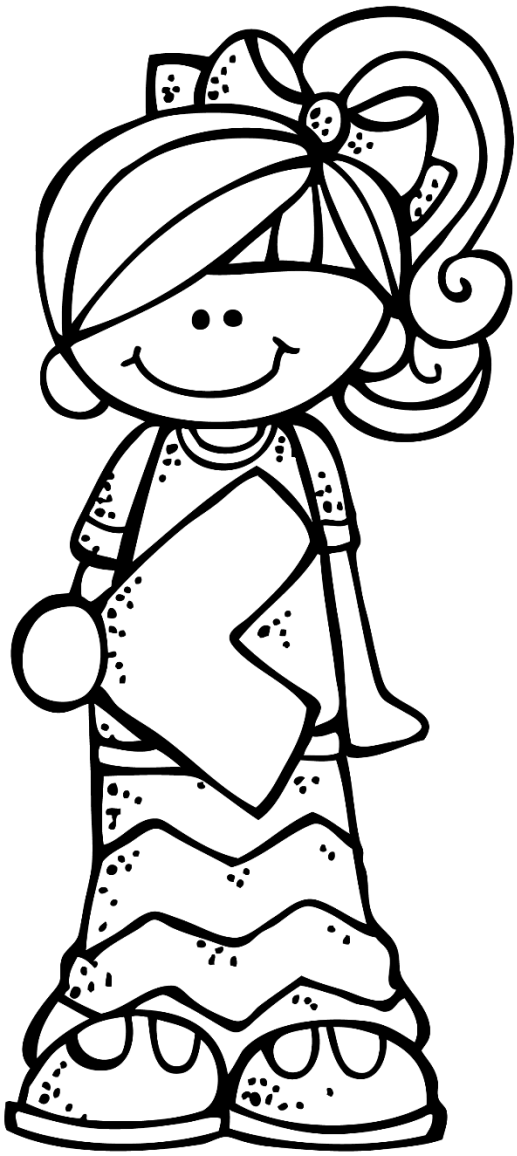






CCSS.Math.Practice.MP3 Construct viable arguments and critique the reasoning of others.

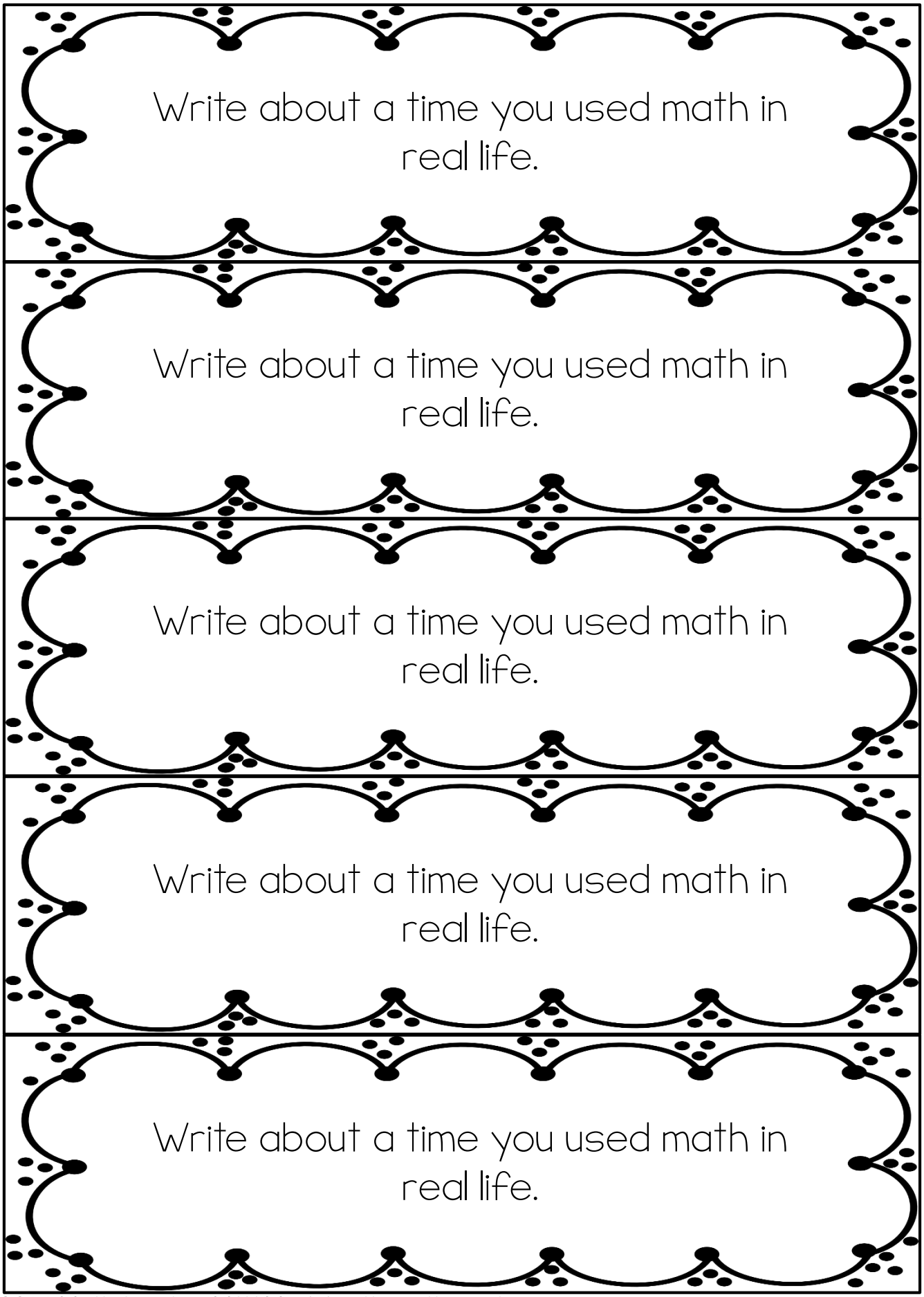
I can model with mathematics.



CCSS.Math.Practice.MP4 Model with mathematics.

Write about a time you used math in real life.

CCSS.Math.Practice.MP4 Model with mathematics.



CCSS.Math.Practice.MP4 Model with mathematics.

Write about some real life situations where math is needed.

CCSS.Math.Practice.MP4 Model with mathematics.

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What is the connection between math and solving real world problems?

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CCSS.Math.Practice.MP4 Model with mathematics.

Write about a time you used a table or diagram to model your mathematical thinking.

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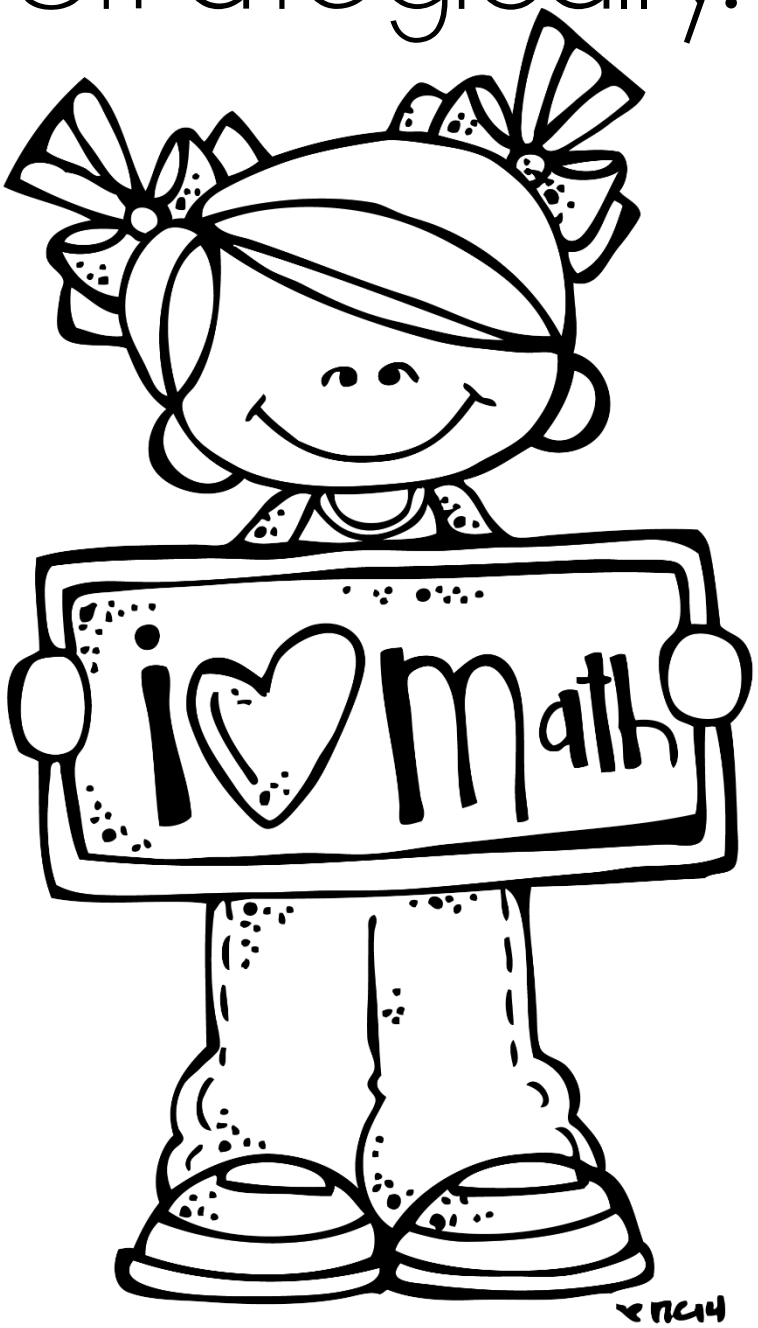
CCSS.Math.Practice.MP4 Model with mathematics.

I can use appropriate tools strategically.



CCSS.Math.Practice.MP5 Use appropriate tools strategically.

What are some tools that could be used to solve math problems? Write the tool and how it can be used.

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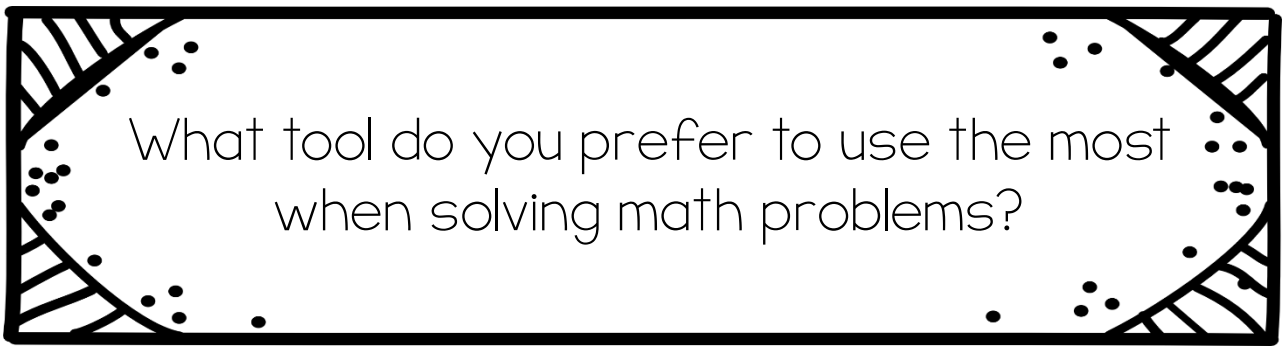
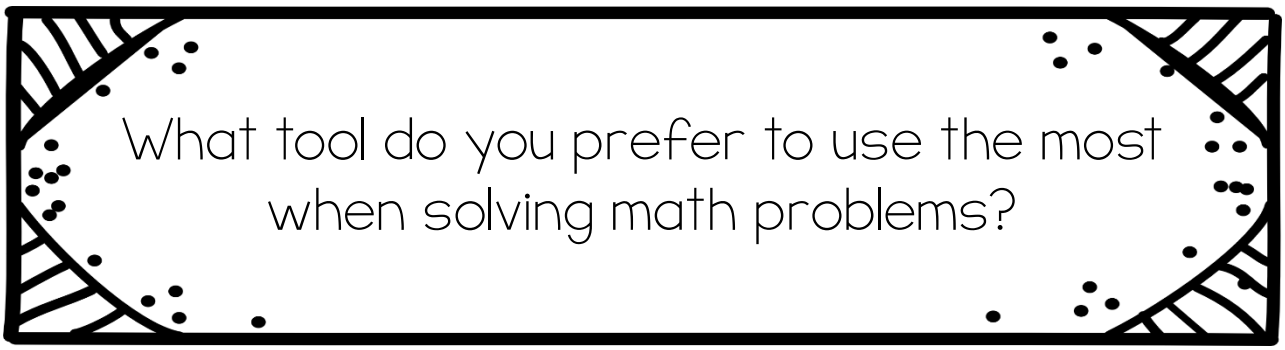
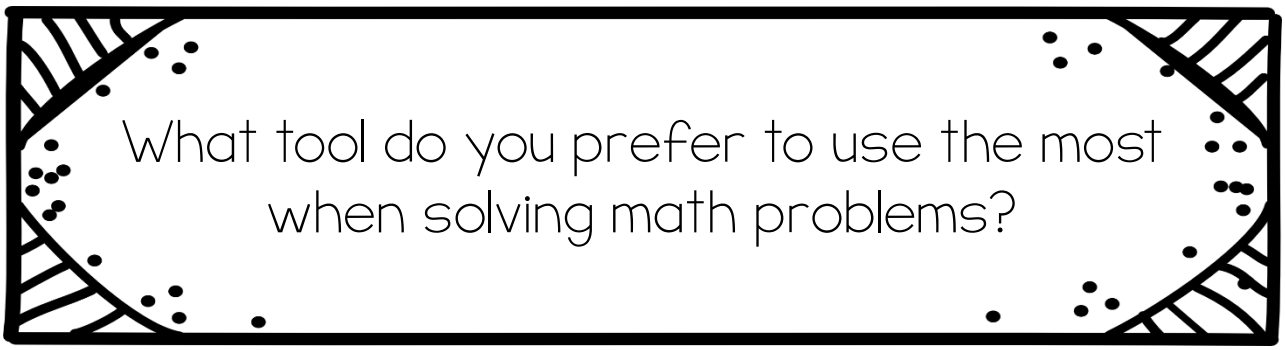
CCSS.Math.Practice.MP5 Use appropriate tools strategically.

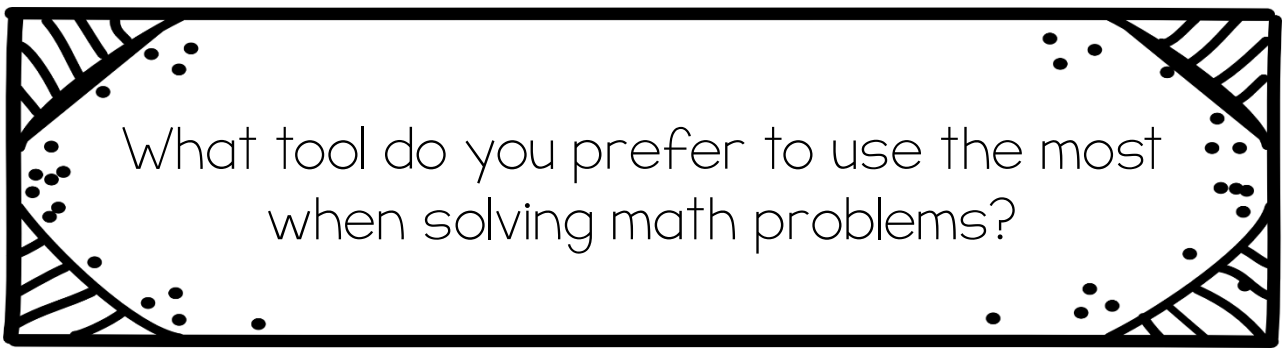
What tool do you prefer to use the most when solving math problems?

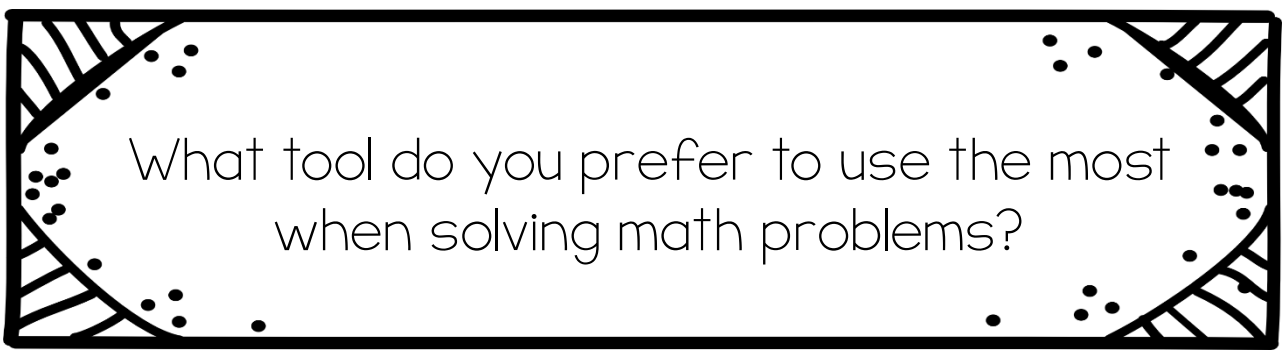
CCSS.Math.Practice.MP5 Use appropriate tools strategically.







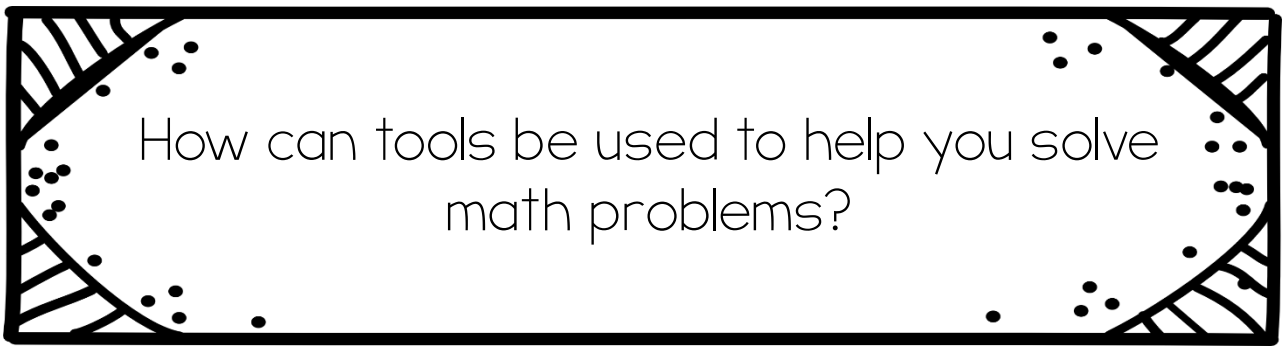


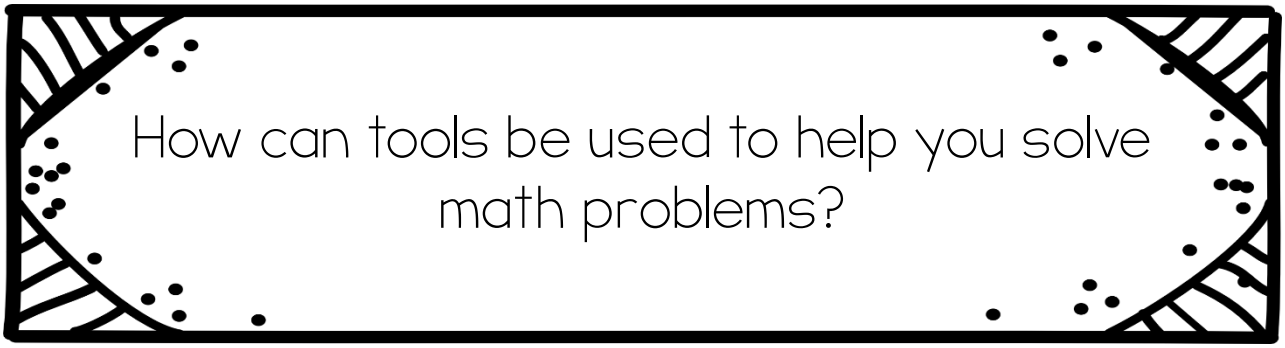


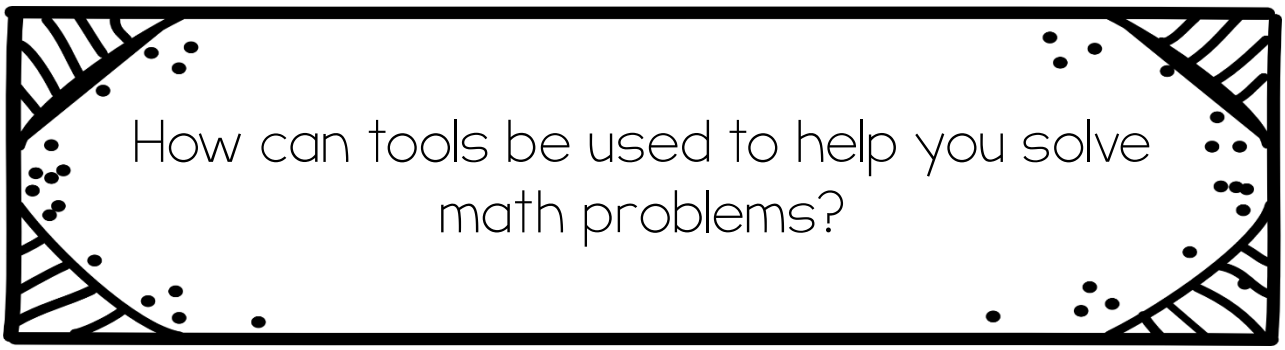
CCSS.Math.Practice.MP5 Use appropriate tools strategically.

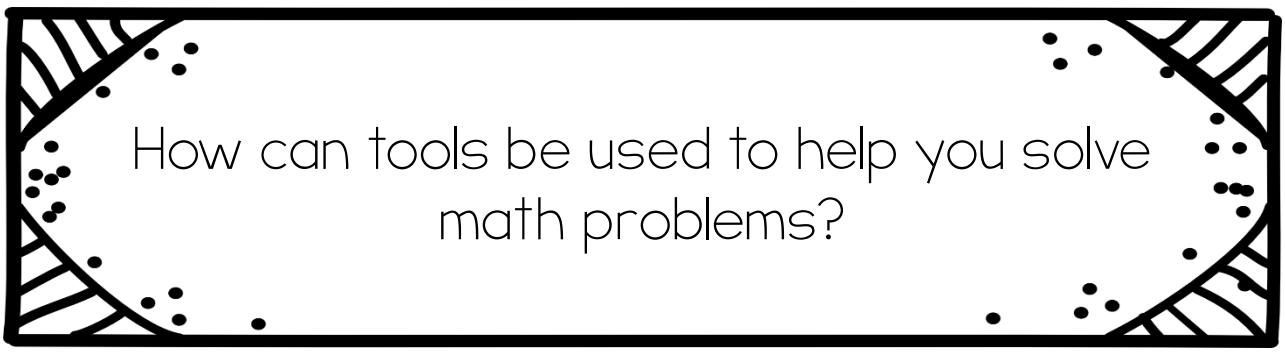
How can tools be used to help you solve math problems?

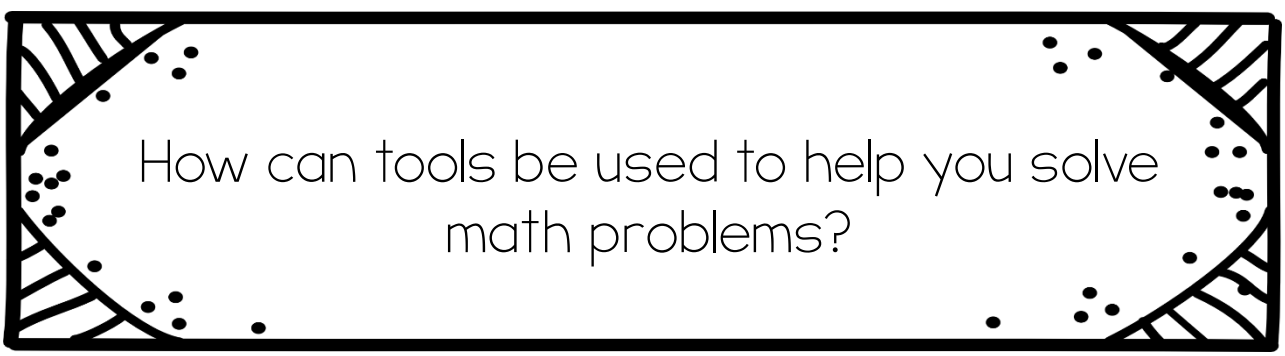
CCSS.Math.Practice.MP5 Use appropriate tools strategically.











CCSS.Math.Practice.MP5 Use appropriate tools strategically.

Why is it important to make sure you use a tool strategically?

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Write about a time you used a tool to solve a math problem. Explain the tool and how it helped you.

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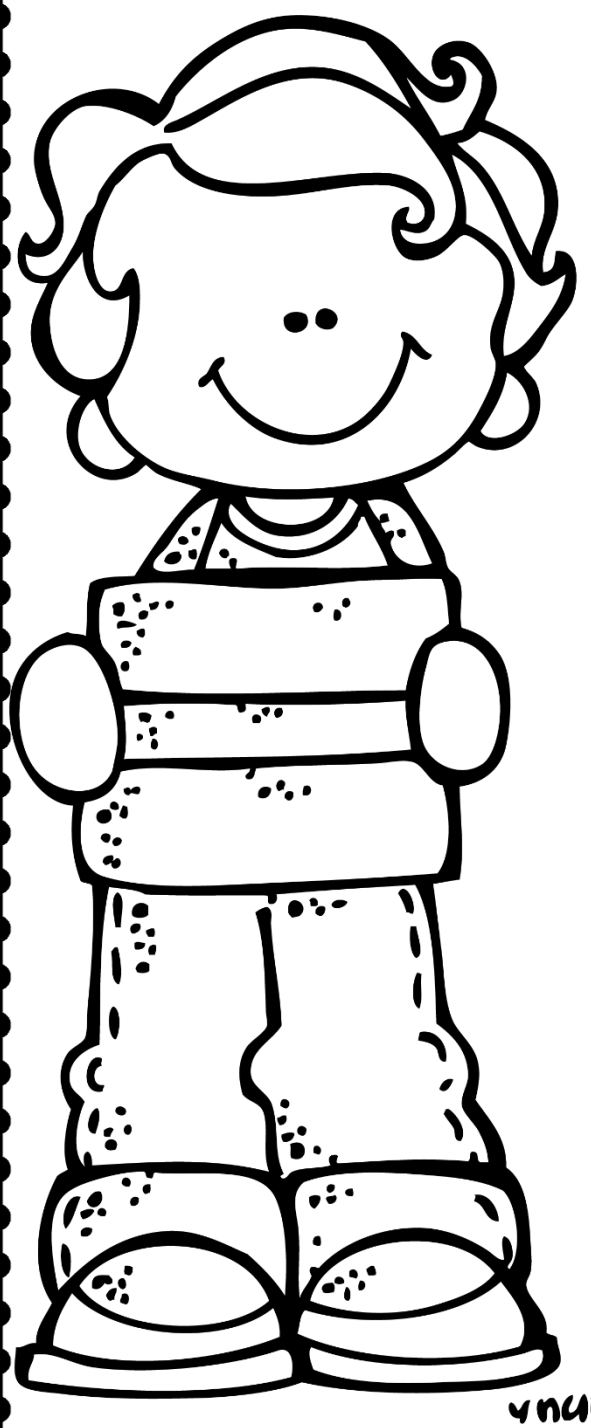
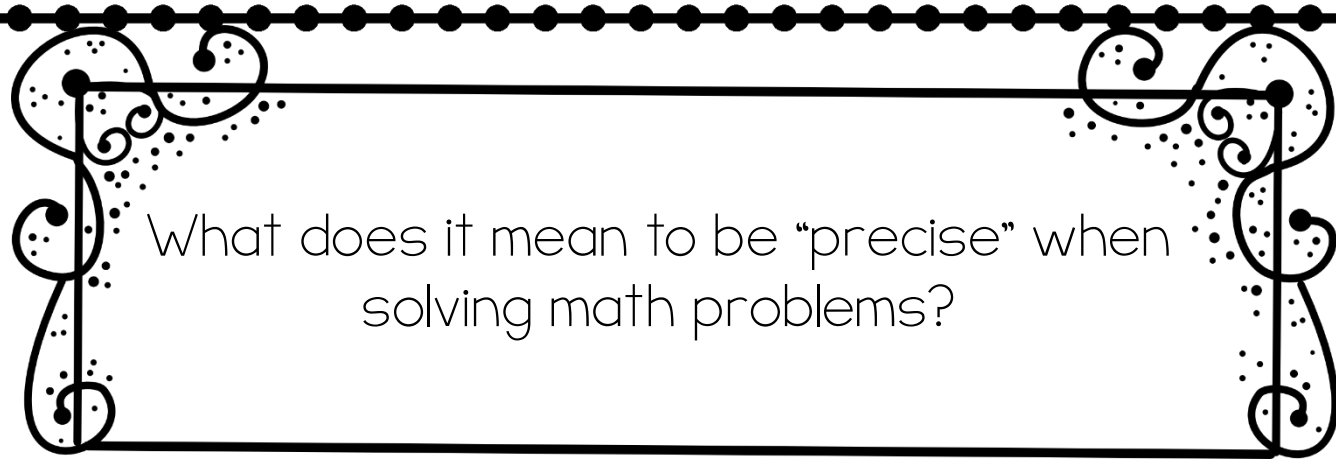


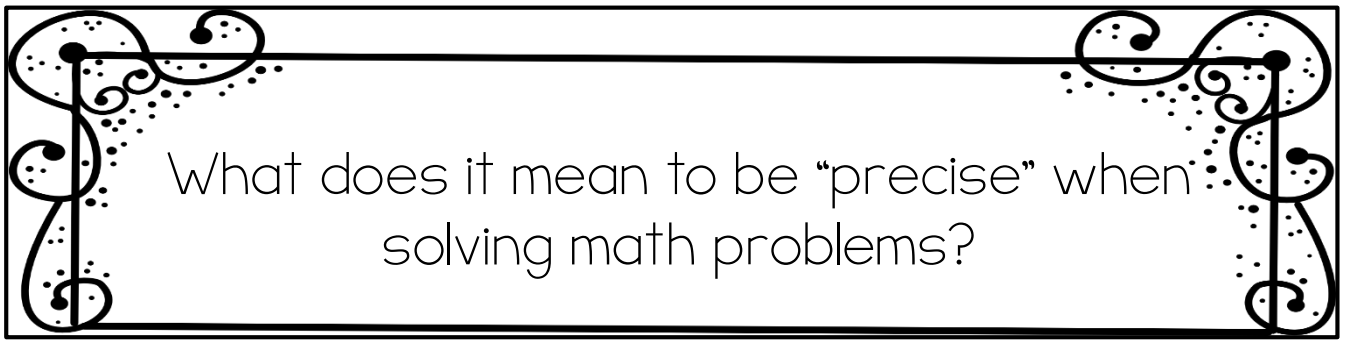
I can attend to precision when solving math problems.

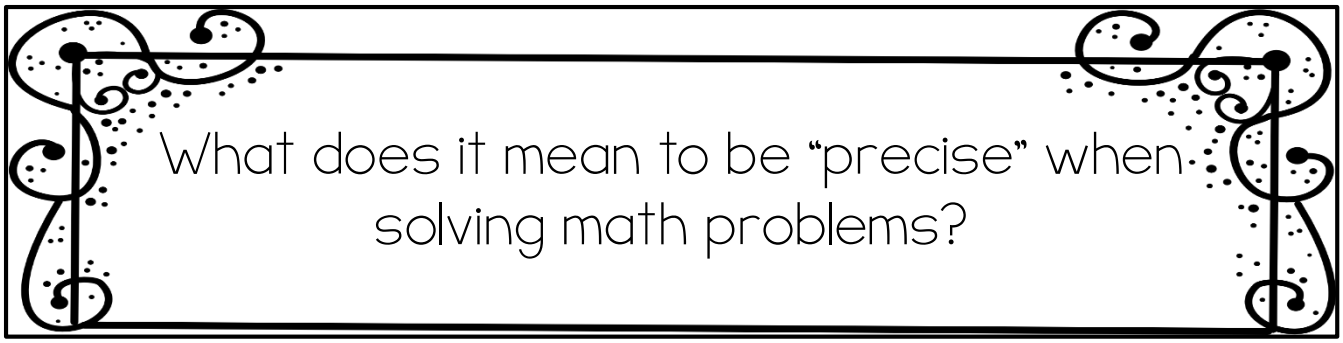
CCSS.Math.Practice.MP6 Attend to precision.

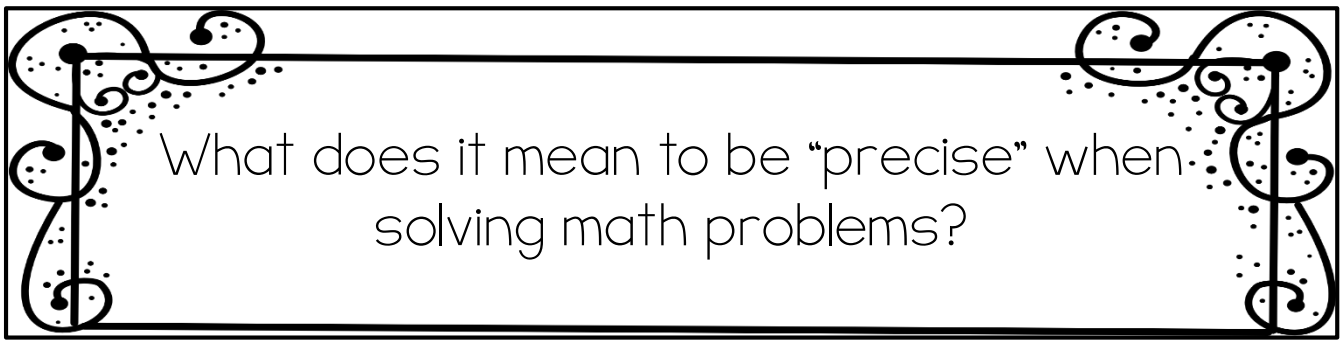


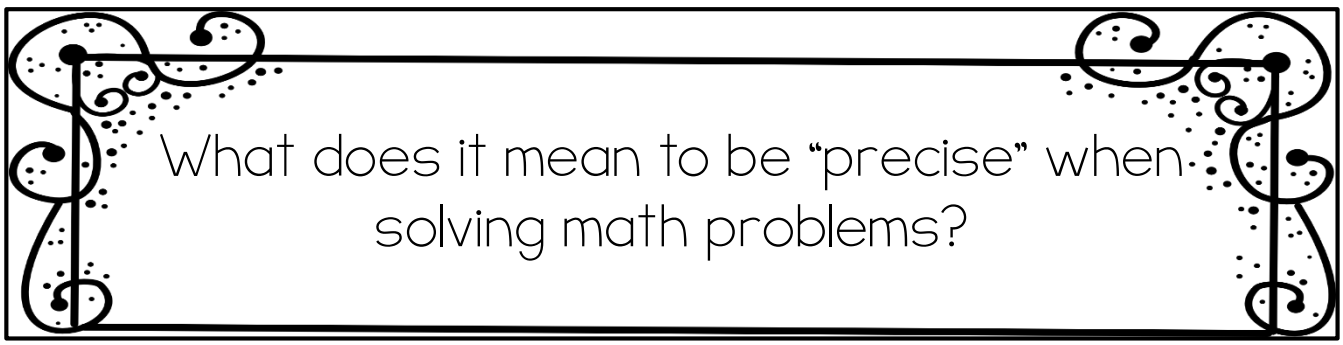
What does it mean to be "precise" when solving math problems?

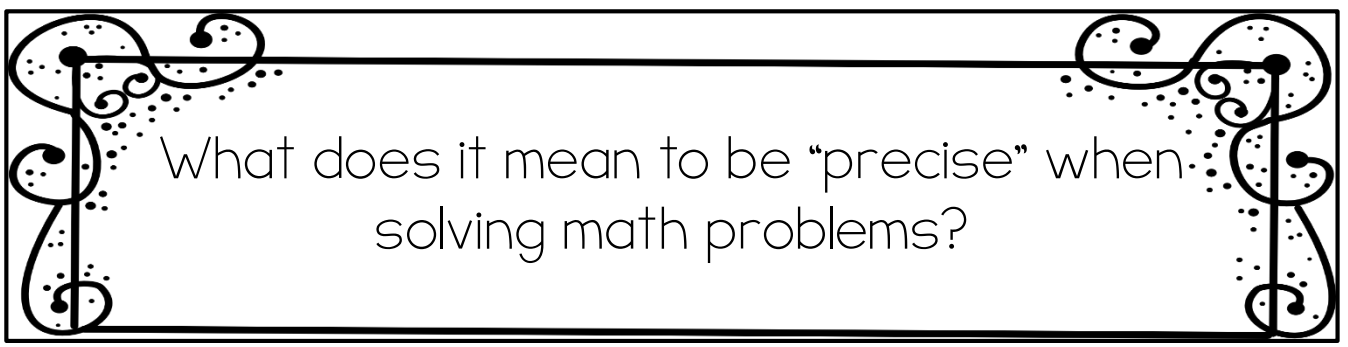
CCSS.Math.Practice.MP6 Attend to precision.







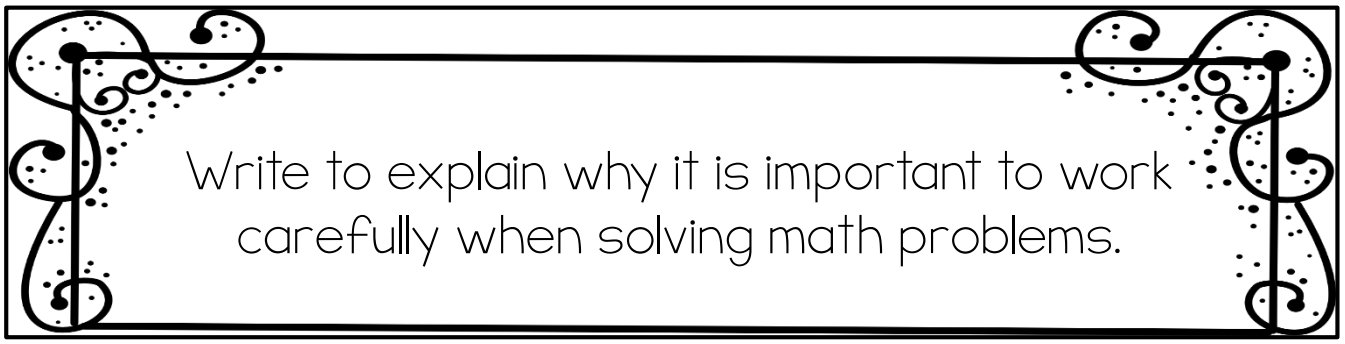


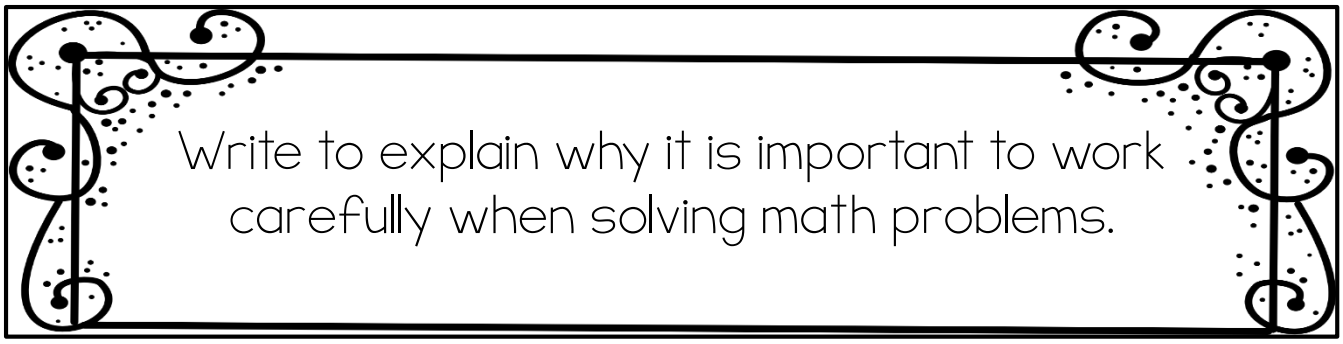


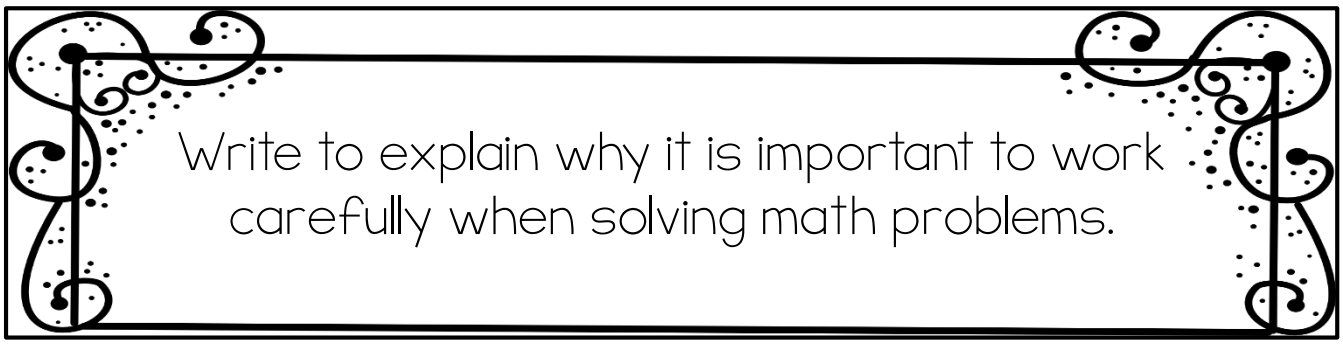
CCSS.Math.Practice.MP6 Attend to precision.

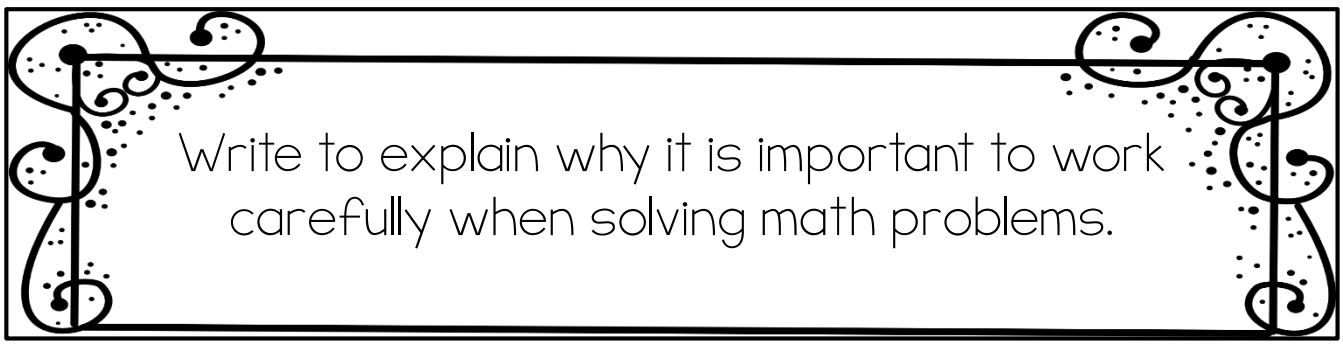
Write to explain why it is important to work carefully when solving math problems.

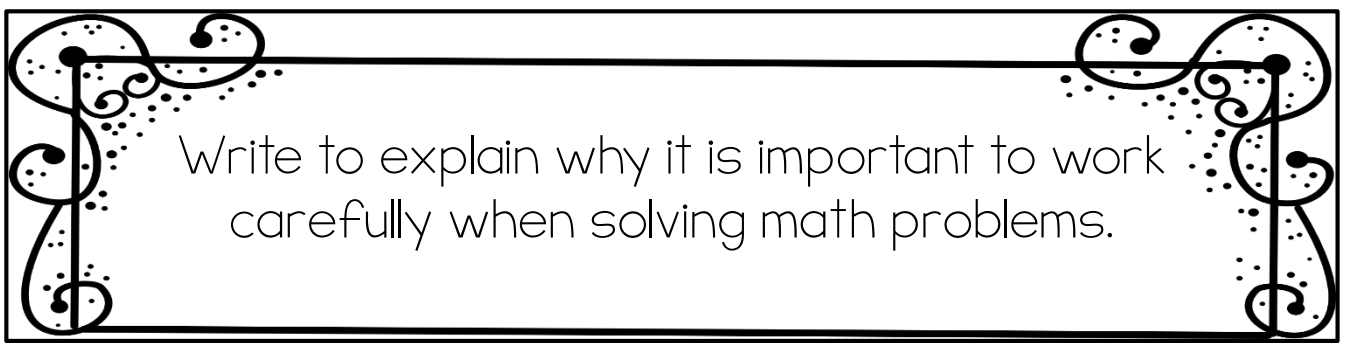
CCSS.Math.Practice.MP6 Attend to precision.











CCSS.Math.Practice.MP6 Attend to precision.

Write about a time when you worked carefully to solve a math problem. Explain the problem and how working carefully helped you.

CCSS.Math.Practice.MP6 Attend to precision.

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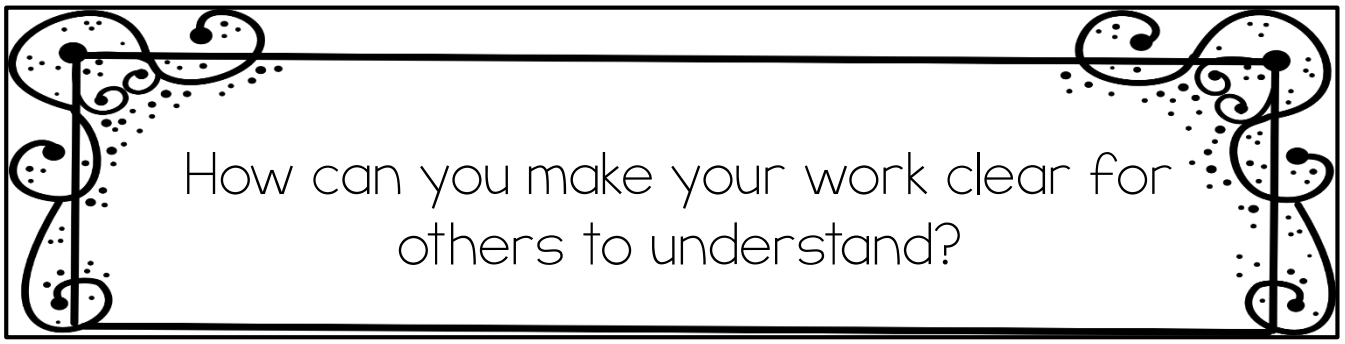
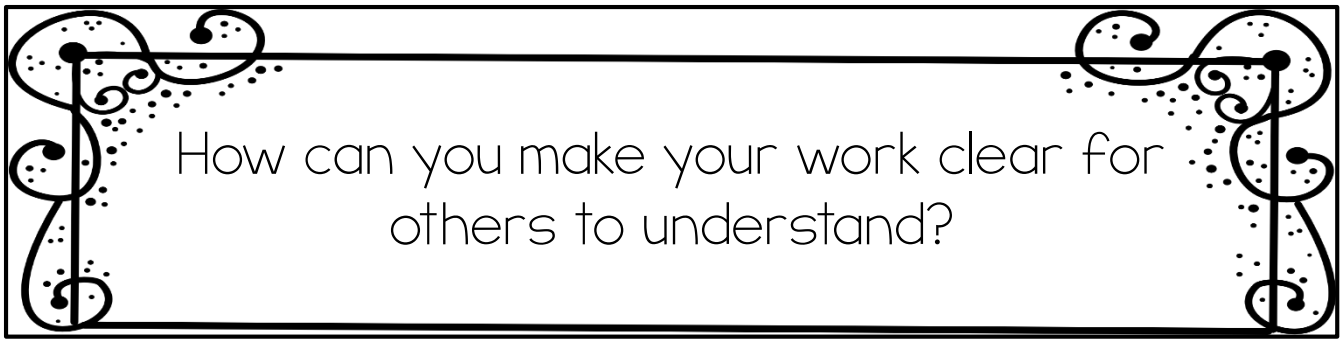
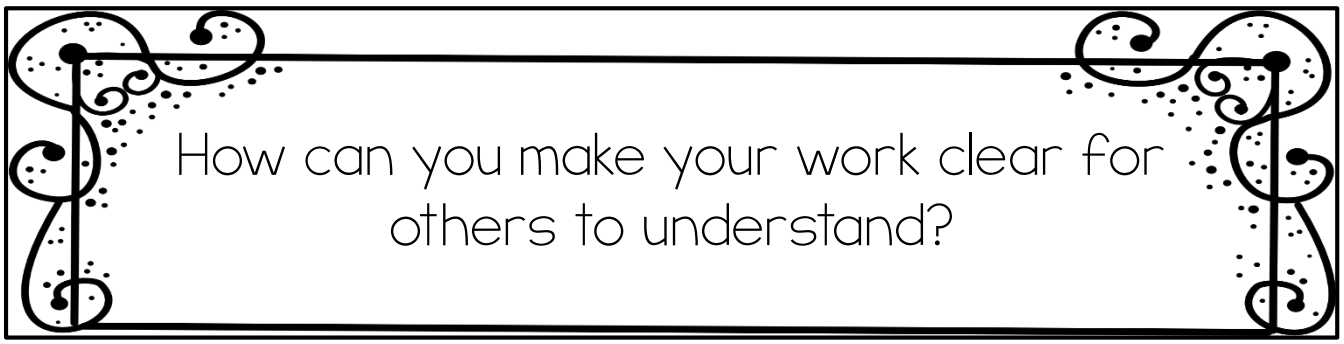
CCSS.Math.Practice.MP6 Attend to precision.

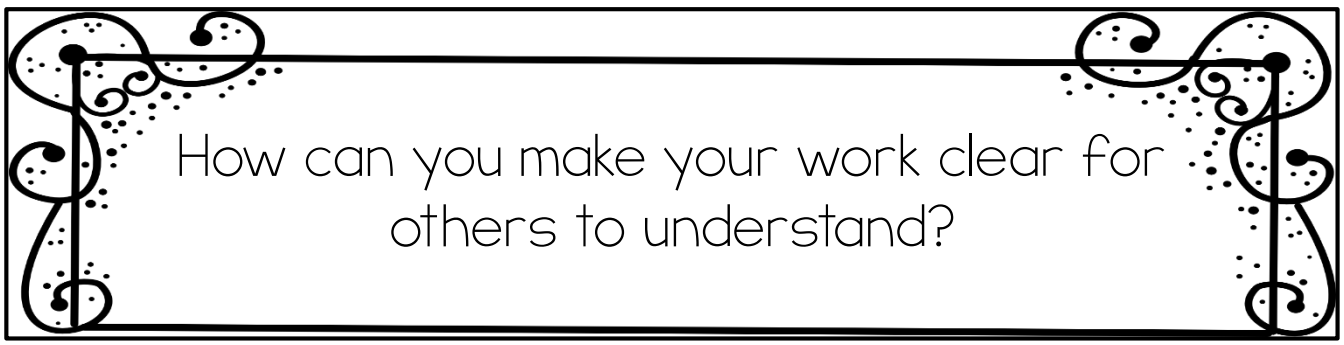
How can you make your work clear for others to understand?

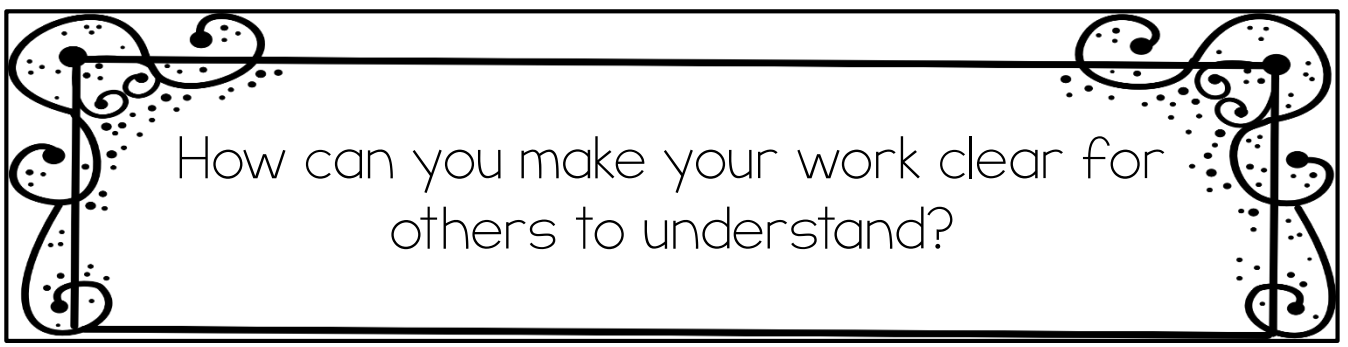
CCSS.Math.Practice.MP6 Attend to precision.











CCSS.Math.Practice.MP6 Attend to precision.

Discuss how labelling is connected to math problems, and why it is important.

CCSS.Math.Practice.MP6 Attend to precision.

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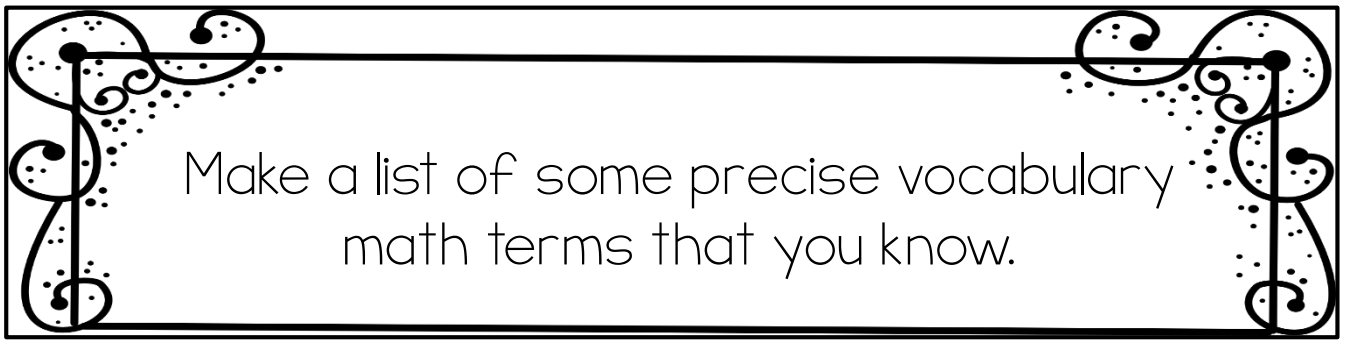
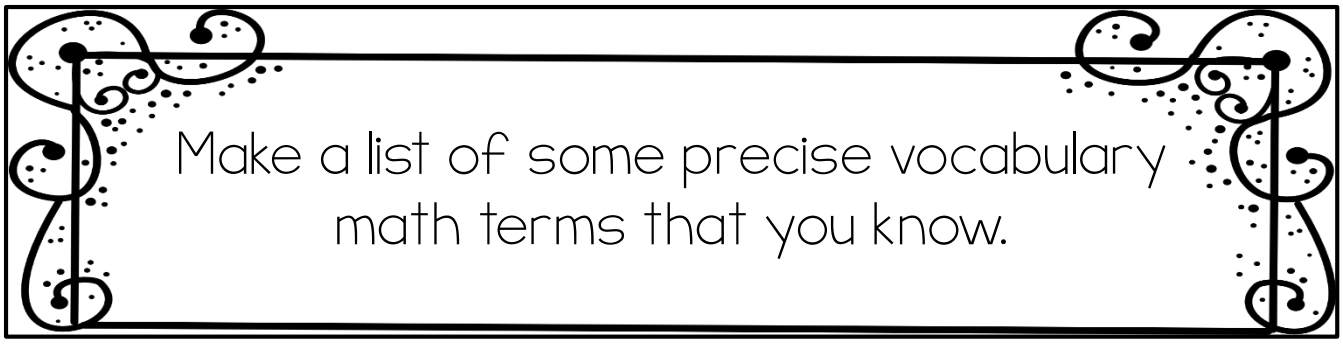
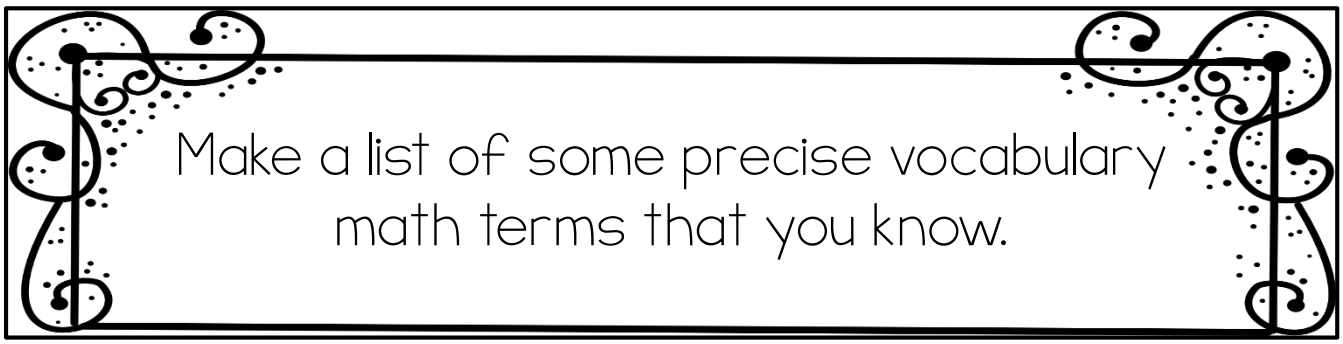
CCSS.Math.Practice.MP6 Attend to precision.

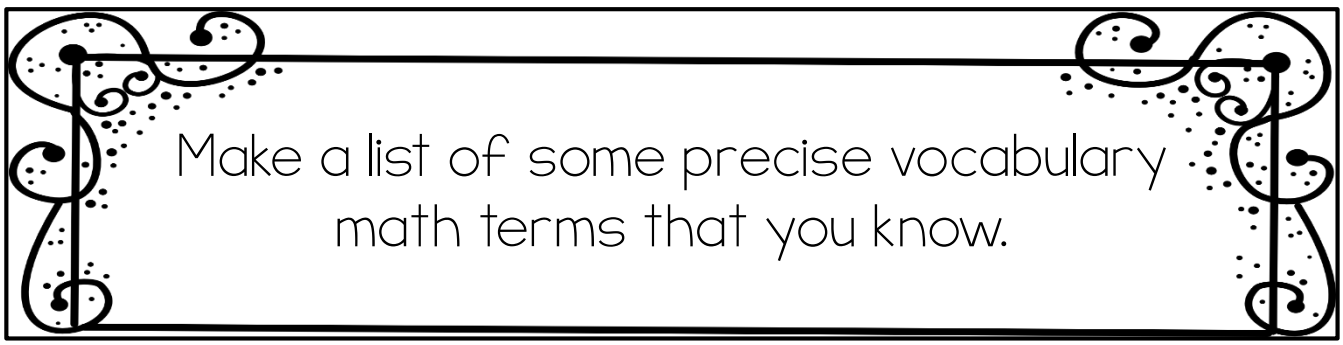
Make a list of some precise vocabulary math terms that you know.

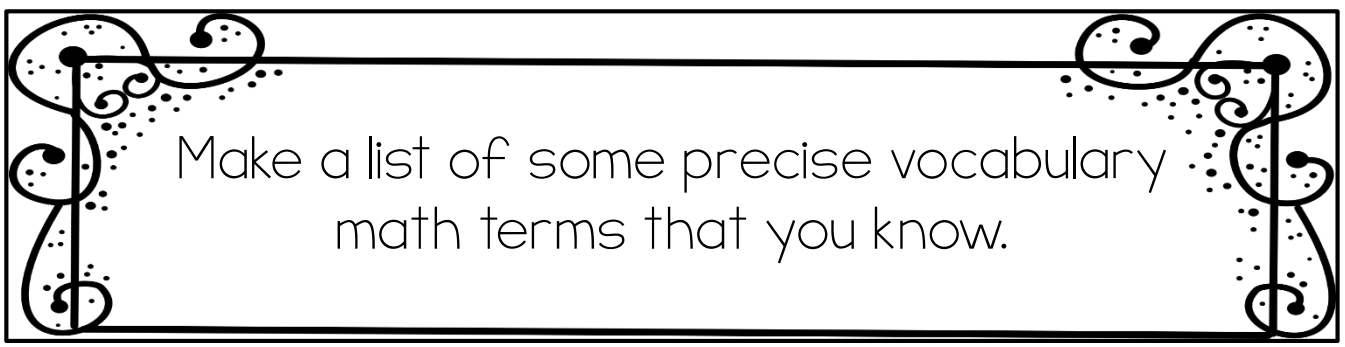
CCSS.Math.Practice.MP6 Attend to precision.











CCSS.Math.Practice.MP6 Attend to precision.

Write to explain why using precise math vocabulary is important when explaining a math problem or answer.

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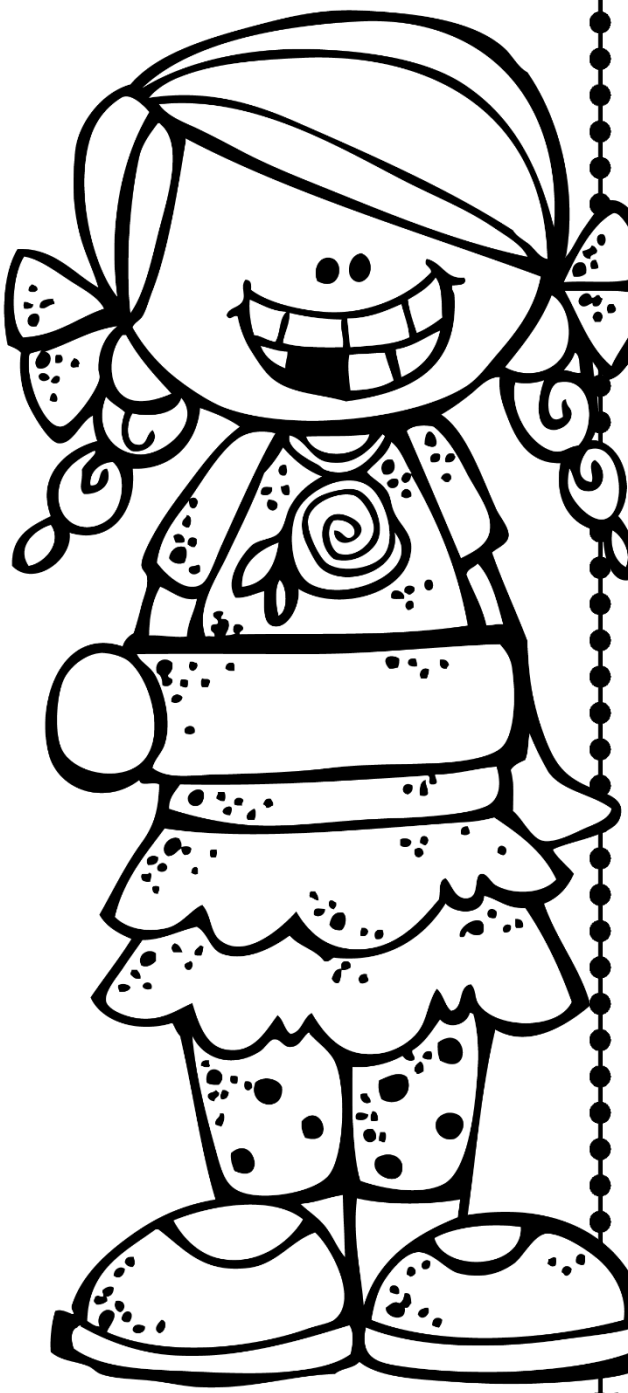
CCSS.Math.Practice.MP6 Attend to precision.

I can look for and make use of structure when solving math problems.



CCSS.Math.Practice.MP7 Look for and make use of structure.

How can thinking of similar problems that you have solved in the past help you solve current problems?

CCSS.Math.Practice.MP7 Look for and make use of structure.

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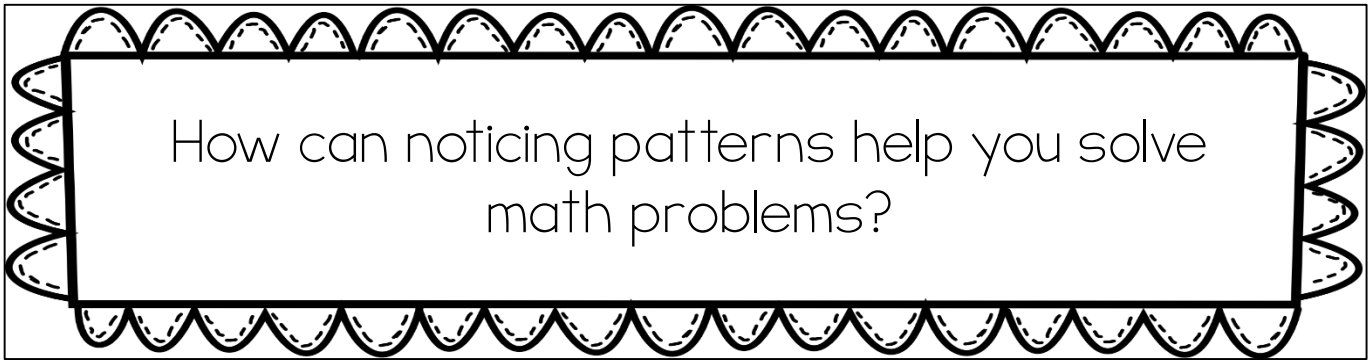
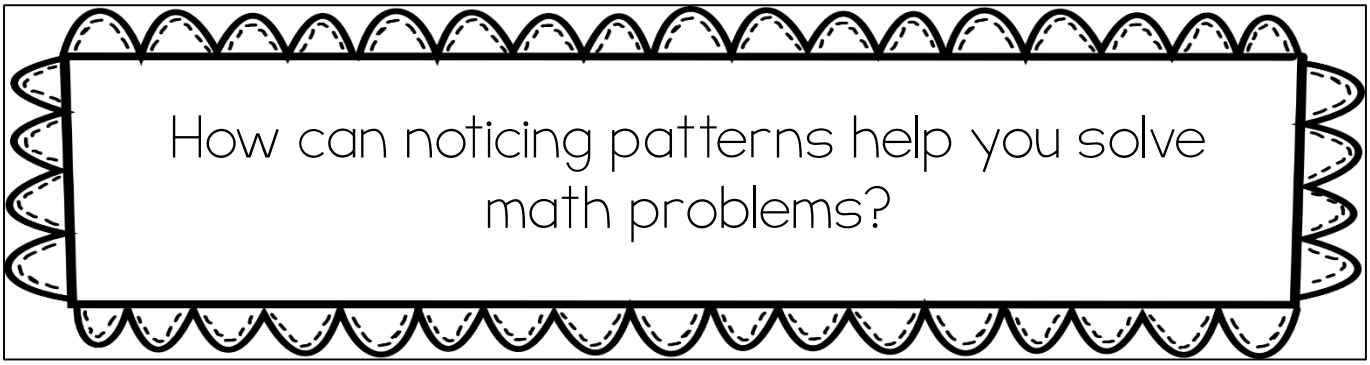
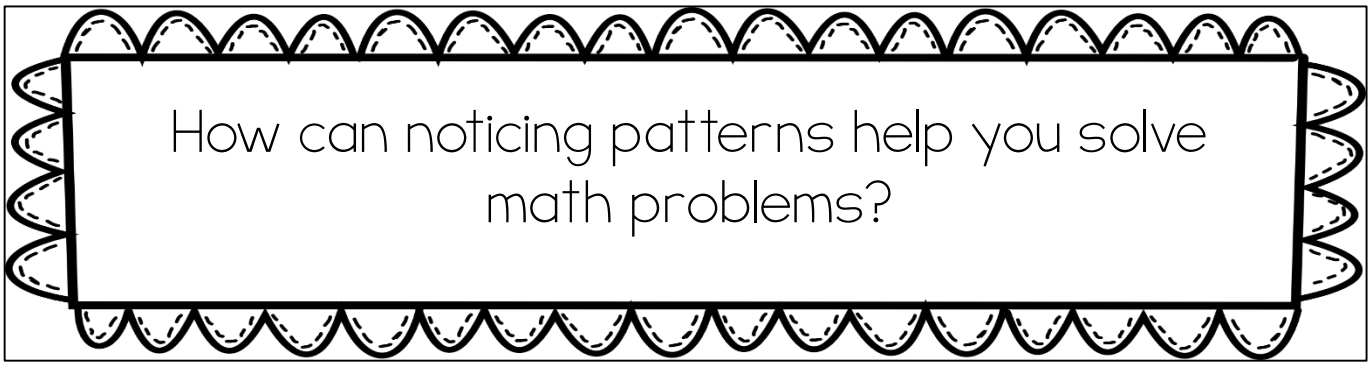
CCSS.Math.Practice.MP7 Look for and make use of structure.

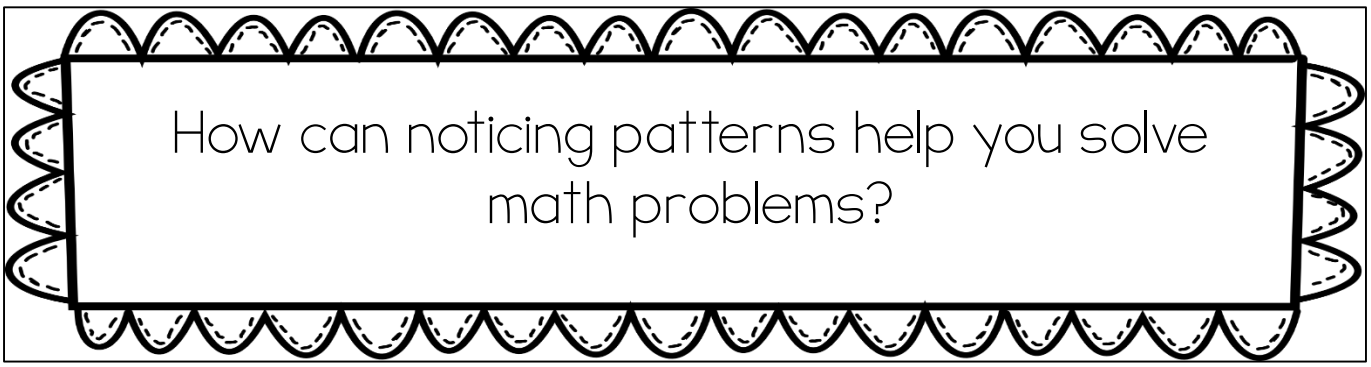
How can noticing patterns help you solve math problems?

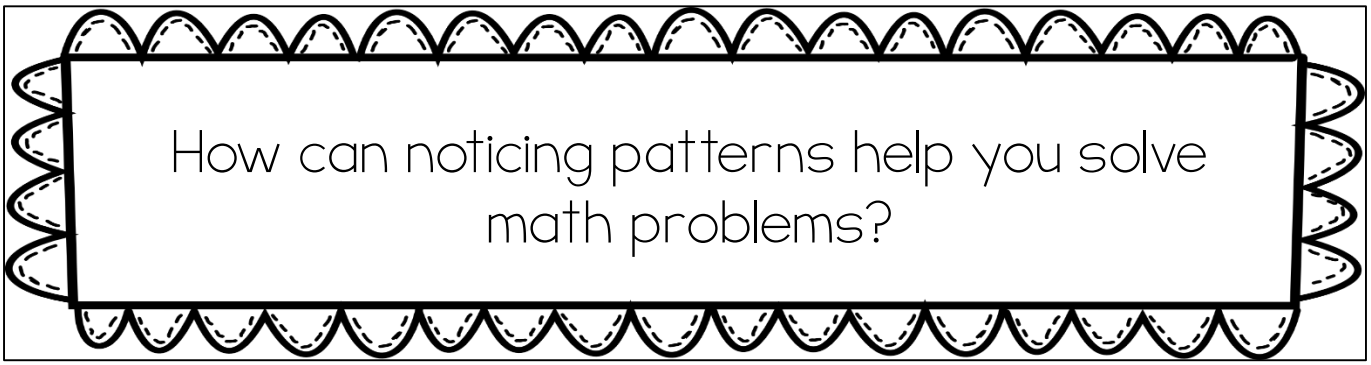
CCSS.Math.Practice.MP7 Look for and make use of structure.







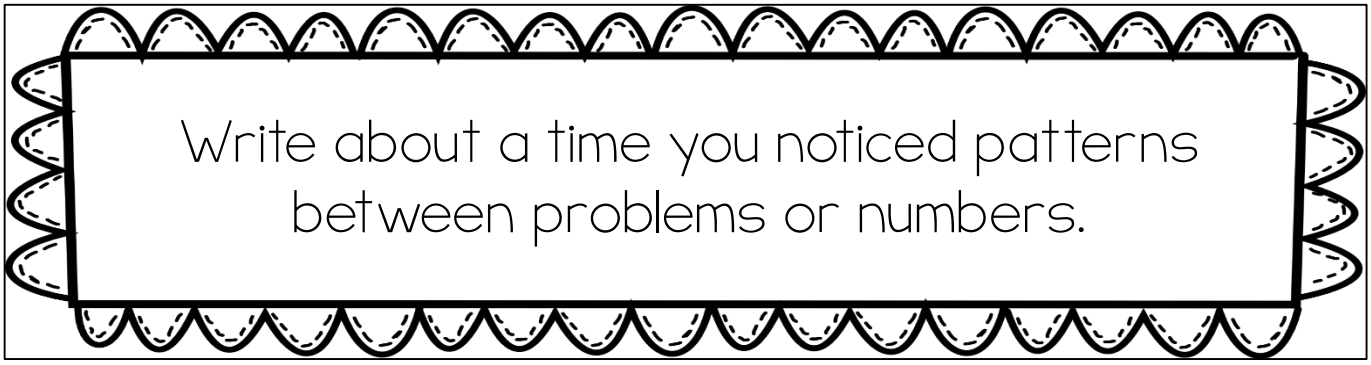


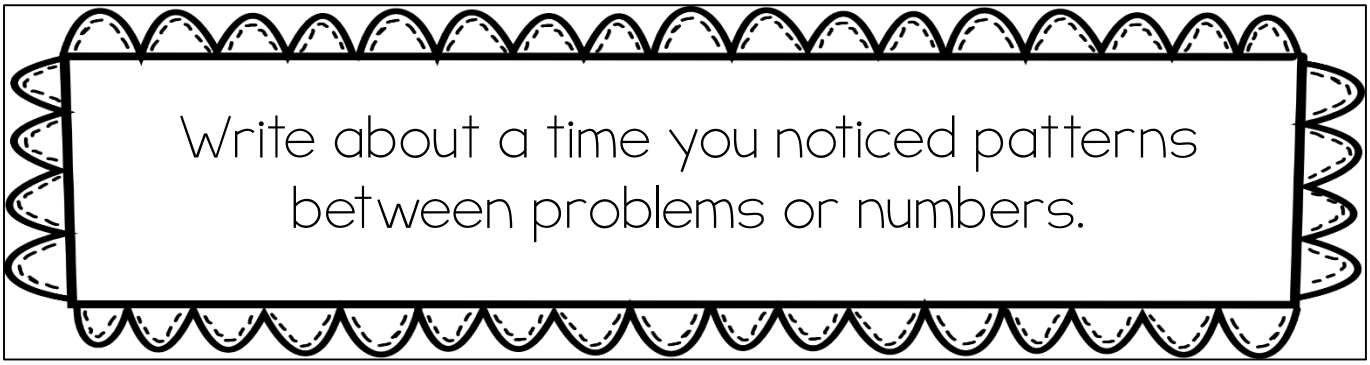


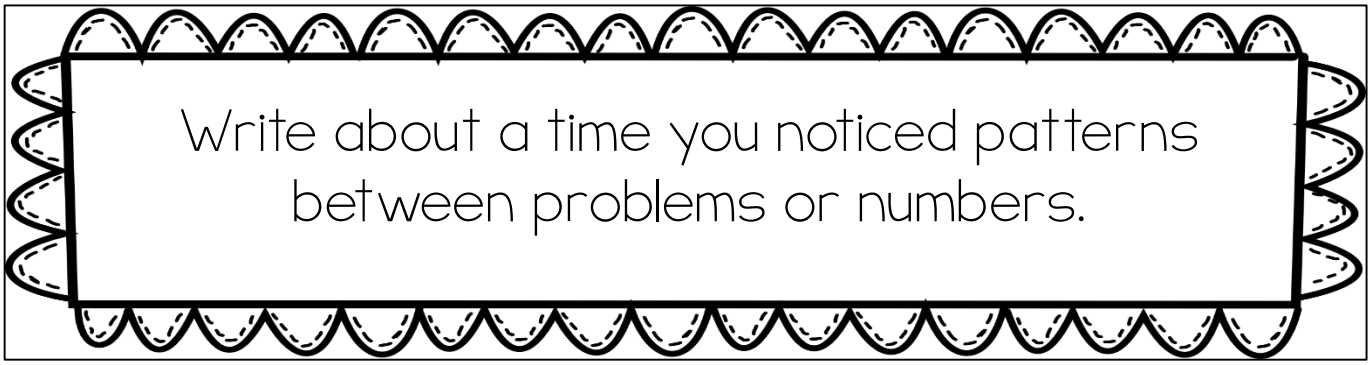
©CCSS.Math.Practice.MP7 Look for and make use of structure.

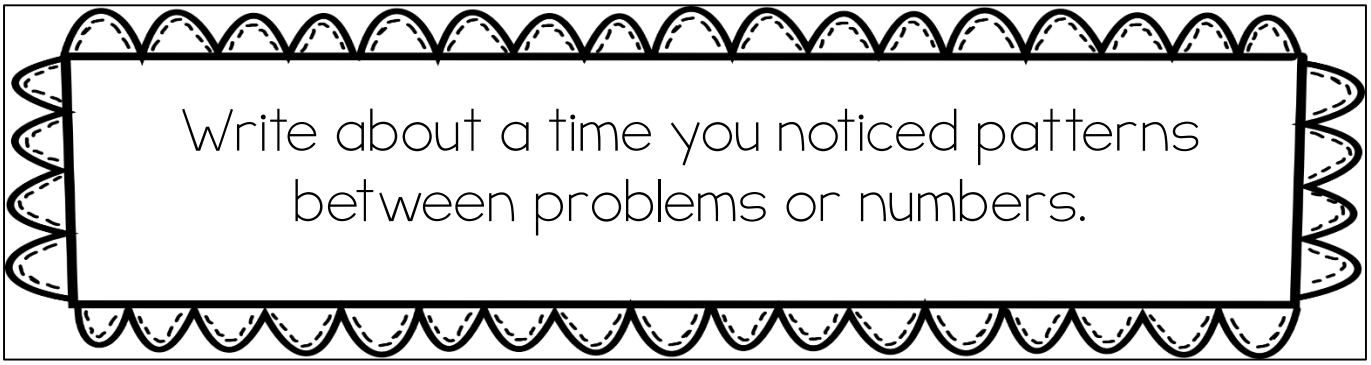
Write about a time you noticed patterns between problems or numbers.

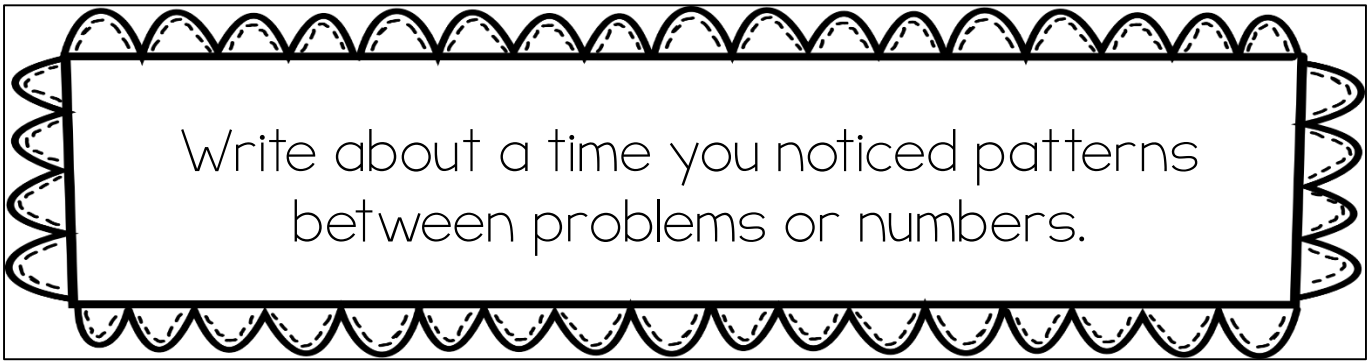
CCSS.Math.Practice.MP7 Look for and make use of structure.











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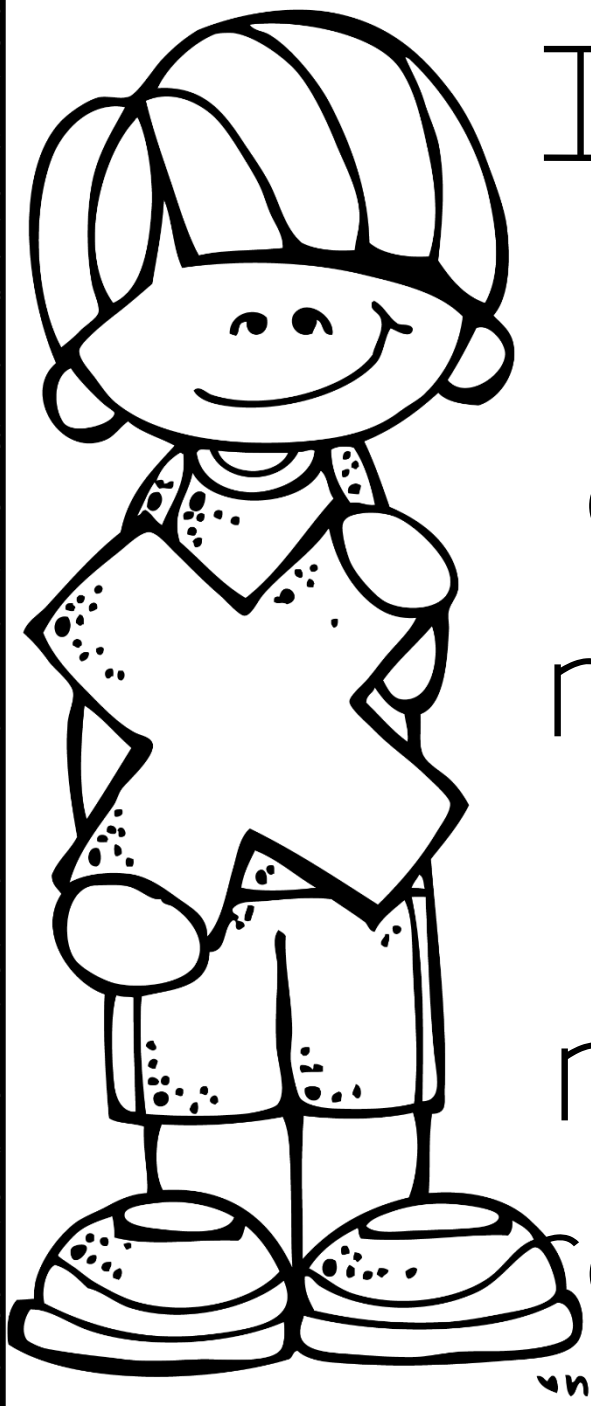

I can look for and express regularity in repeated reasoning.

CCSS.Math.Practice.MP8 Look for and express regularity in repeated reasoning.

Are shortcuts appropriate in math?
Explain why or why not.

CCSS.Math.Practice.MP8 Look for and express regularity in repeated reasoning.

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CCSS.Math.Practice.MP8 Look for and express regularity in repeated reasoning.

Write about a time you used a shortcut to help you solve a math problem.

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CCSS.Math.Practice.MP8 Look for and express regularity in repeated reasoning.

Write to explain how knowing that 9 x 7 = 63 helps you solve 90 x 7, 900 x 7, and 9,000 x 7.

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CCSS.Math.Practice.MP8 Look for and express regularity in repeated reasoning.

CHOICE BOARDS

Black and White Version: These could be printed and given to the students to write on. Students could color in the box of the choice they have completed. This will allow students to keep track of which choices have been completed and which are left.

Color Version: These could be printed on card stock, laminated, and used in a math center.

MP.1 CHOICE BOARD

How did you make sense of the problem?	What helped you persevere in solving the problem?	How do you know your answer makes sense?
What is a simpler problem that could have helped you solve this problem?	Is there another way you could have solved this problem?	Describe the problem in your own words.

MP.1 CHOICE BOARD

How did you make sense of the problem?	What helped you persevere in solving the problem?	How do you know your answer makes sense?
What is a simpler problem that could have helped you solve this problem?	Is there another way you could have solved this problem?	Describe the problem in your own words.

CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them.

MP.1 CHOICE BOARD

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What is a simpler problem that could have helped you solve this problem?	Is there another way you could have solved this problem?	Describe the problem in your own words.

CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them.

MP.2 CHOICE BOARD

How did you make sense of the numbers and their relationship?	How did you know how to represent the word problem with the equation you wrote?	Explain how your equation matches the problem.
Explain how your answer refers back to the word problem.	Explain what the numbers in the problem mean.	Draw a picture to show how the numbers are related.

MP.2 CHOICE BOARD

How did you make sense of the numbers and their relationship?	How did you know how to represent the word problem with the equation you wrote?	Explain how your equation matches the problem.
Explain how your answer refers back to the word problem.	Explain what the numbers in the problem mean.	Draw a picture to show how the numbers are related.

CCSS.Math.Practice.MP2 Reason abstractly and quantitatively.

MP.2 CHOICE BOARD

How did you make sense of the numbers and their relationship?	How did you know how to represent the word problem with the equation you wrote?	Explain how your equation matches the problem.
Explain how your answer refers back to the word problem.	Explain what the numbers in the problem mean.	Draw a picture to show how the numbers are related.

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Explain how your answer refers back to the word problem.	Explain what the numbers in the problem mean.	Draw a picture to show how the numbers are related.

CCSS.Math.Practice.MP2 Reason abstractly and quantitatively.

MP.3 CHOICE BOARD

In 2-3 sentences, defend your answer.	Discuss your answer with a partner. Justify your answer while you are discussing the problem.	Use drawings, diagrams, or another visual to justify your answer.
Trade papers with a partner and make sense of each other's reasoning.	What mathematical evidence supports your answer?	Describe the strategy you used to solve the problem. Explain why you used that strategy.

MP.3 CHOICE BOARD

In 2-3 sentences, defend your answer.	Discuss your answer with a partner. Justify your answer while you are discussing the problem.	Use drawings, diagrams, or another visual to justify your answer.
Trade papers with a partner and make sense of each other's reasoning.	What mathematical evidence supports your answer?	Describe the strategy you used to solve the problem. Explain why you used that strategy.

CCSS.Math.Practice.MP3 Construct viable arguments and critique the reasoning of others.

MP.3 CHOICE BOARD

In 2-3 sentences, defend your answer.	Discuss your answer with a partner. Justify your answer while you are discussing the problem.	Use drawings, diagrams, or another visual to justify your answer.
Trade papers with a partner and make sense of each other's reasoning.	What mathematical evidence supports your answer?	Describe the strategy you used to solve the problem. Explain why you used that strategy.

MP.3 CHOICE BOARD

In 2-3 sentences, defend your answer.	Discuss your answer with a partner. Justify your answer while you are discussing the problem.	Use drawings, diagrams, or another visual to justify your answer.
Trade papers with a partner and make sense of each other's reasoning.	What mathematical evidence supports your answer?	Describe the strategy you used to solve the problem. Explain why you used that strategy.

CCSS.Math.Practice.MP3 Construct viable arguments and critique the reasoning of others.

MP.4 CHOICE BOARD

Explain the real world connection of your problem.	Create another problem with the same operation or equation as the one you just solved.	Create another problem with a similar situation or context as the one you just solved.
How did you decide what equation to use to solve the problem?	Is there another way you could have solved the problem? Explain.	How does the model you used connect back to the problem?

MP.4 CHOICE BOARD

Explain the real world connection of your problem.	Create another problem with the same operation or equation as the one you just solved.	Create another problem with a similar situation or context as the one you just solved.
How did you decide what equation to use to solve the problem?	Is there another way you could have solved the problem? Explain.	How does the model you used connect back to the problem?

CCSS.Math.Practice.MP4 Model with mathematics.

MP.4 CHOICE BOARD

Explain the real world connection of your problem.	Create another problem with the same operation or equation as the one you just solved.	Create another problem with a similar situation or context as the one you just solved.
How did you decide what equation to use to solve the problem?	Is there another way you could have solved the problem? Explain.	How does the model you used connect back to the problem?

MP.4 CHOICE BOARD

Explain the real world connection of your problem.	Create another problem with the same operation or equation as the one you just solved.	Create another problem with a similar situation or context as the one you just solved.
How did you decide what equation to use to solve the problem?	Is there another way you could have solved the problem? Explain.	How does the model you used connect back to the problem?

CCSS.Math.Practice.MP4 Model with mathematics.

MP.5 CHOICE BOARD

What tool(s) did you use to solve the problem?	Describe another tool that could be used to solve the problem.	Describe a tool that would not have been effective at solving the problem.
Discuss the problem with a partner. Did they use the same tool as you?	Would paper and pencil computation or manipulatives have been more effective with this problem? Explain your choice.	Write to prove that the tool you chose to use to solve the problem was the most effective.

MP.5 CHOICE BOARD

What tool(s) did you use to solve the problem?	Describe another tool that could be used to solve the problem.	Describe a tool that would not have been effective at solving the problem.
Discuss the problem with a partner. Did they use the same tool as you?	Would paper and pencil computation or manipulatives have been more effective with this problem? Explain your choice.	Write to prove that the tool you chose to use to solve the problem was the most effective.

CCSS.Math.Practice.MP5 Use appropriate tools strategically.

MP.5 CHOICE BOARD

What tool(s) did you use to solve the problem?	Describe another tool that could be used to solve the problem.	Describe a tool that would not have been effective at solving the problem.
Discuss the problem with a partner. Did they use the same tool as you?	Would paper and pencil computation or manipulatives have been more effective with this problem? Explain your choice.	Write to prove that the tool you chose to use to solve the problem was the most effective.

MP.5 CHOICE BOARD

What tool(s) did you use to solve the problem?	Describe another tool that could be used to solve the problem.	Describe a tool that would not have been effective at solving the problem.
Discuss the problem with a partner. Did they use the same tool as you?	Would paper and pencil computation or manipulatives have been more effective with this problem? Explain your choice.	Write to prove that the tool you chose to use to solve the problem was the most effective.

CCSS.Math.Practice.MP5 Use appropriate tools strategically.

MP.6 CHOICE BOARD

What math terms would you use to discuss this problem with a partner?	How did you ensure your answer was accurate and precise?	In 2-3 sentences, explain the equation you wrote using clear math terms and definitions.
In 2-3 sentences, explain the math problem using clear math terms and definitions.	How are you showing the meanings of the quantities?	How did you show that your solution answer the problem?

MP.6 CHOICE BOARD

What math terms would you use to discuss this problem with a partner?	How did you ensure your answer was accurate and precise?	In 2-3 sentences, explain the equation you wrote using clear math terms and definitions.
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CCSS.Math.Practice.MP6 Attend to precision.

MP.6 CHOICE BOARD

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CCSS.Math.Practice.MP6 Attend to precision.

MP.7-8 CHOICE BOARD

What pattern(s) did you notice in your problem?	Were you able to use a shortcut to help you solve the problem? Explain.	What did you notice or learn from this problem that could help you solve future problems?
What previously learned ideas helped you solve this problem?	Were you able to break the problem into smaller problems to solve?	Is there a mathematical rule that you used to help you solve the problem?

MP.7-8 CHOICE BOARD

What pattern(s) did you notice in your problem?	Were you able to use a shortcut to help you solve the problem? Explain.	What did you notice or learn from this problem that could help you solve future problems?
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CCSS.Math.Practice.MP7 Look for and make use of structure.

CCSS.Math.Practice.MP8 Look for and express regularity in repeated reasoning.

MP.7-8 CHOICE BOARD

What pattern(s) did you notice in your problem?	Were you able to use a shortcut to help you solve the problem? Explain.	What did you notice or learn from this problem that could help you solve future problems?
What previously learned ideas helped you solve this problem?	Were you able to break the problem into smaller problems to solve?	Is there a mathematical rule that you used to help you solve the problem?

MP.7-8 CHOICE BOARD

What pattern(s) did you notice in your problem?	Were you able to use a shortcut to help you solve the problem? Explain.	What did you notice or learn from this problem that could help you solve future problems?
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CCSS.Math.Practice.MP7 Look for and make use of structure.

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Thanks!
Jennifer Findley

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