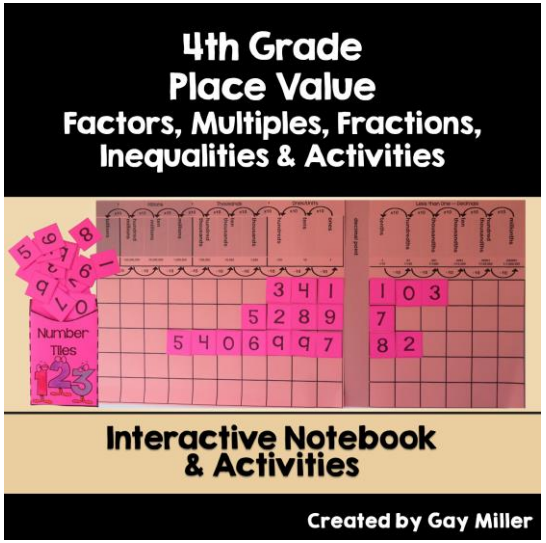
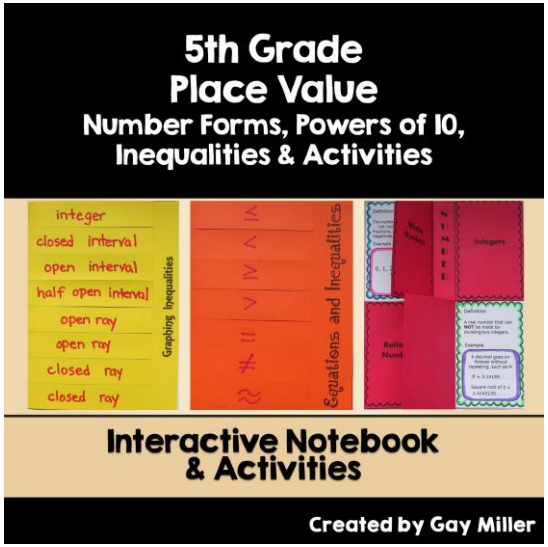
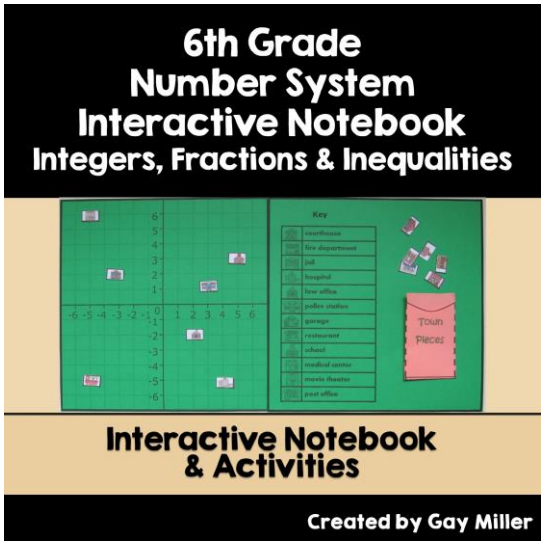
Instructions for Completing the Organizer:

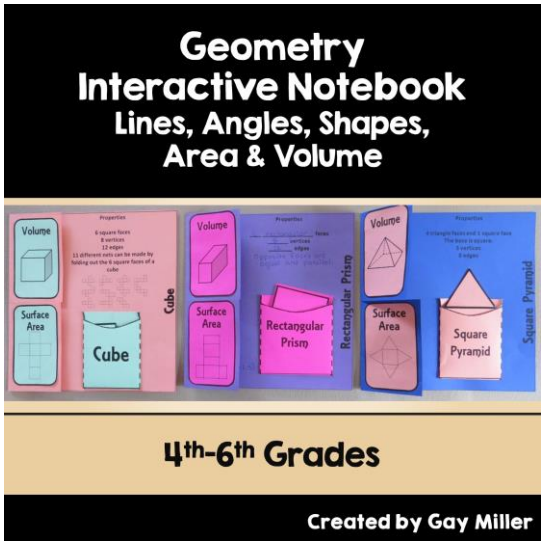
1. Print the organizer onto colored paper.
2. Trim the edges.
3. Fold on the dotted line.
4. Cut on the solid lines between flaps up to the dotted fold line.
5. Have students fill in missing information.

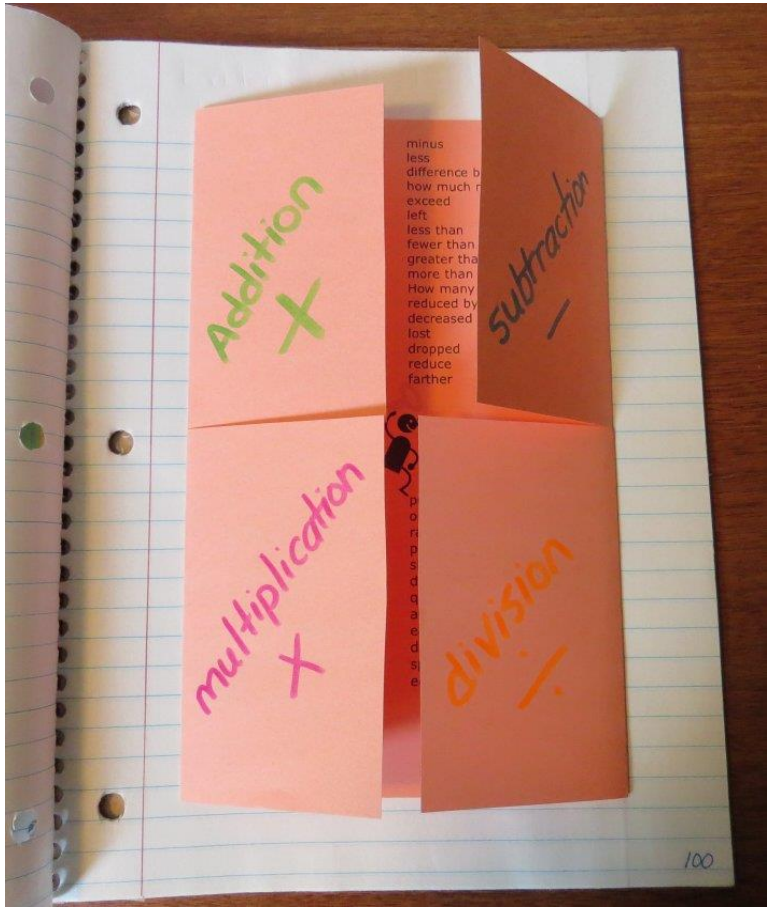
The graphic organizers will fit into an interactive notebook after the edges are trimmed.











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increased by
more than
combined, together
total of
total
sum
added to
perimeter
together
in all
all
altogether
extra
plus
more

minus
less
difference between/of
how much more
exceed
left
less than
fewer than
greater than
more than
How many less?
reduced by
decreased by
lost
dropped
reduce
farther

times
product of
increased/decreased by a factor of (this type can involve both addition or subtraction *and* multiplication!)
total
area
in all
all
of multiplied by
twice

per, a
out of
ratio of, quotient of
percent (divide by 100)
share
distribute
quotient
average
each
divide equally
split
equal pieces

Understanding the Problem

1. Can you state the problem in your own words?
2. What are you trying to find or do?
3. What are the unknowns?
4. What information do you obtain from the problem?
5. What information, if any, is missing or not needed?

Devising a Plan

1. Look for a pattern.
2. Examine related problems and determine if the same technique can be applied.
3. Examine a simpler or special case of the problem to gain insight into the solution of the original problem.
4. Make a diagram.
5. Write an equation.
6. Use a guess and check.
7. Work backward.

8. use or draw a picture
9. write a number sentence
10. use actions (operations) such as +, -, *, ÷
11. make or use a table
12. make or use a list
13. work a simpler problem
14. work backwards to solve a problem
15. act out the situation

Look Back at the Solution

1. Check the results in the original problem. In some cases, this will require a proof.
2. Interpret the solution in terms of the original problem. Does your answer make sense? Is it reasonable?
3. Determine whether there is another method of finding the solution.
4. If possible, determine other related or more general problems for which the techniques will work.

Carrying out the Plan

1. Implement the strategy in Step 2 and perform any necessary actions or computations.
2. Check each step of the plan as you proceed. This may be intuitive checking or a formal proof of each step.
3. Keep an accurate record of your work.

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