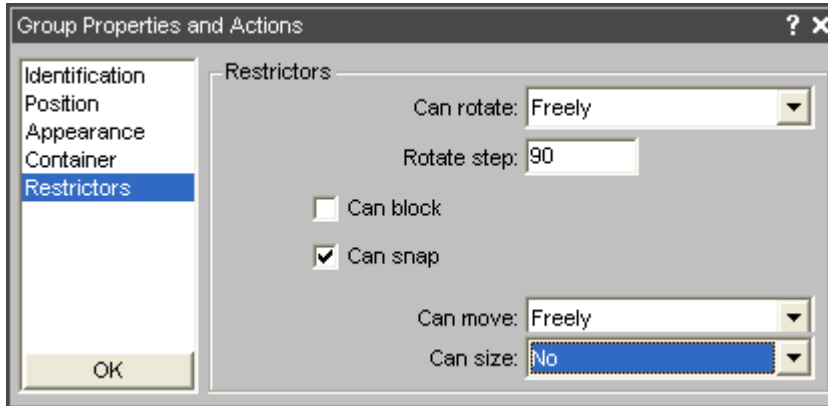


Flipcharts: fixing size, plus Fun with Integers

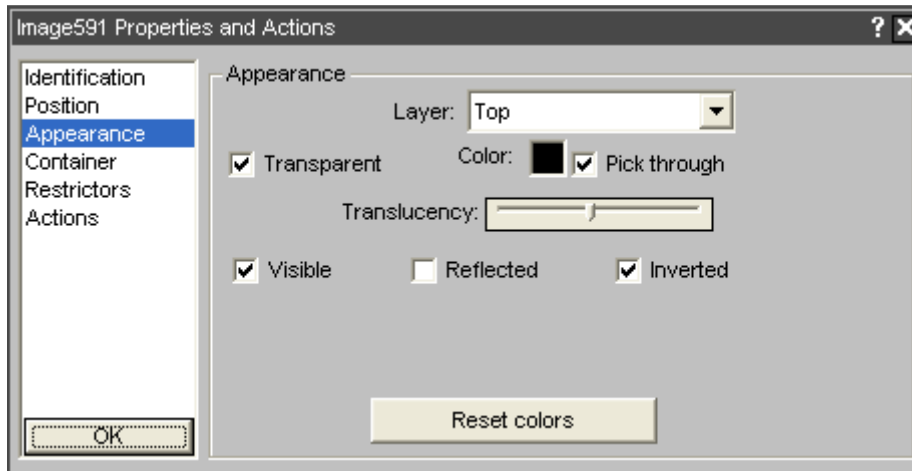
Isn't it annoying when you grab something in a flipchart and it streeeeeeeeeeeeetches all out of shape. Well, you can end that annoyance forever: Double-click on the object and click on the properties button:



Then go to Restrictors where you can restrict the sizing (to No) and restrict the rotating to 90° turns:



You can make things transparent by putting the translucency slider in the middle:



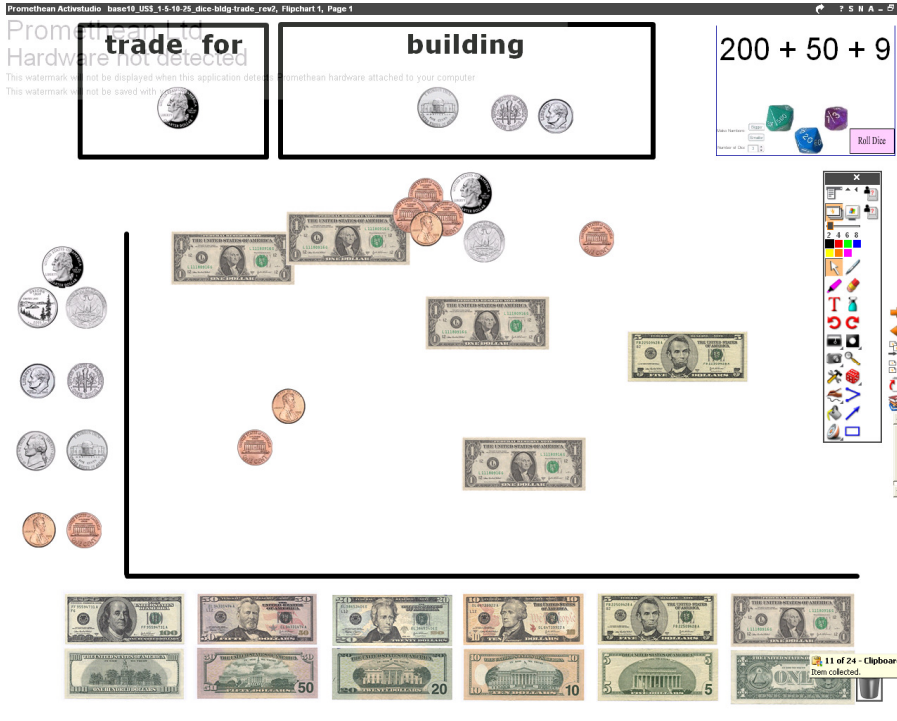
Other valuable moves were

locking your graphic onto a page: right-click on the graphic, then Edit > Lock

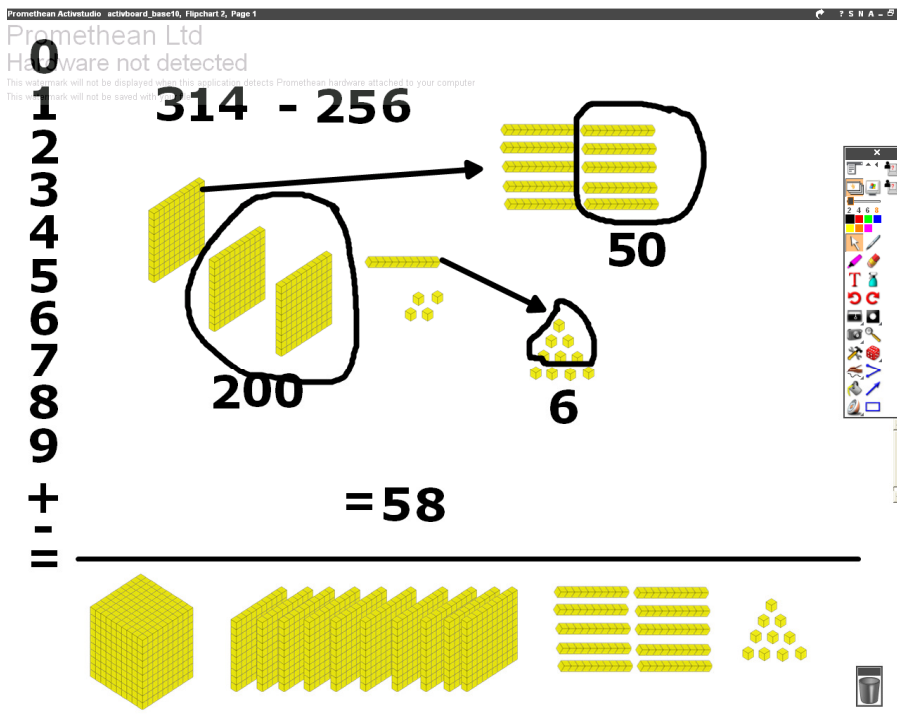
dragging to copy: right-click on the graphic, then Edit > Drag to copy

aligning graphics: right-click on the graphic, then Edit > Align

On the next two pages you'll find some examples of things you and your students might do with these flipcharts. Here's a screenshot from the US Money flipchart:



Here's one from the Base 10 flipchart:



You can get more ideas and do more stuff with virtual manipulatives online at Utah State's National Library of Virtual Manipulatives: <http://nlvm.usu.edu/en/nav/vlibrary.html>

Here's some straightforward factoring from the integers workspace flipchart
http://www.soed.k12.or.us/files/activboard_integers.zip:

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0 1 2 3 4 5 6 7 8 9 10

$x - 2$ $x^2 - 6x + 8$

$x - 4$

x^2 x $() + - =$

Here's multiplying with some zero pairs:

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0 1 2 3 4 5 6 7 8 9 10

$x - 2$

$x + 4$

$x^2 + 2x - 8$

x^2 x $() + - =$

Here's some with x in only one factor:

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2x - 8

• ● — x² x () + - =

Here's multiplying 6/5 x 3/4:

I used the little 5x5 grid and drew some rectangles to show what a unit is (in this case, 5/5 x 4/4).

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0 1 2 3 4 5 6 7 8 9

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$\frac{6}{5} \times \frac{3}{4} = \frac{18}{20} = \frac{9}{10}$

$\frac{18}{20} = \frac{9}{10} \times \frac{2}{2} = \frac{9}{10} \times \frac{1}{1} = \frac{9}{10}$

$\frac{9}{10}$

x² x () + - =