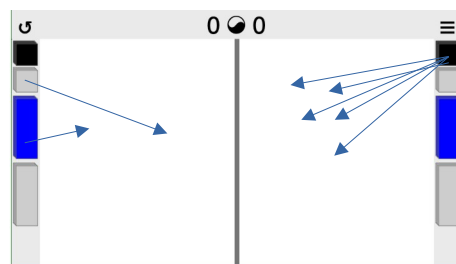


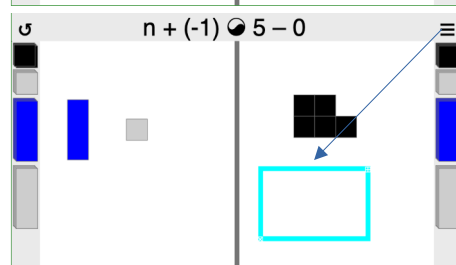
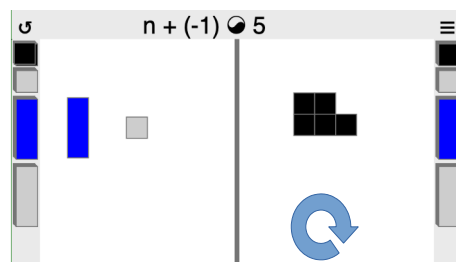
Tiles for Grade 7–9 Equations

Setting up the equation

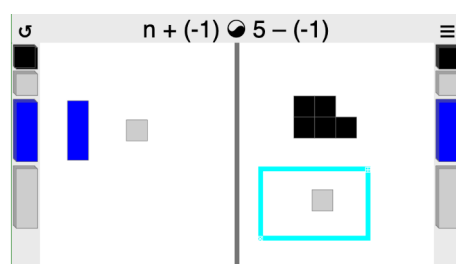
Move tiles from the left and right supplies to the mat, to represent the equation you want to solve.



If you want to represent a subtraction, drag your mouse in a circle on the mat. This will create a Subtraction Zone.



Any tiles placed in the zone are subtracted from the tiles on that side of the mat.



Solving an Equation

Press the  icon to begin solving an equation. It will change to an equal sign, and the dividing line in the middle of the mat will turn green. From now on, you can only add or remove tiles from the mat if you do something to keep the two sides in balance.

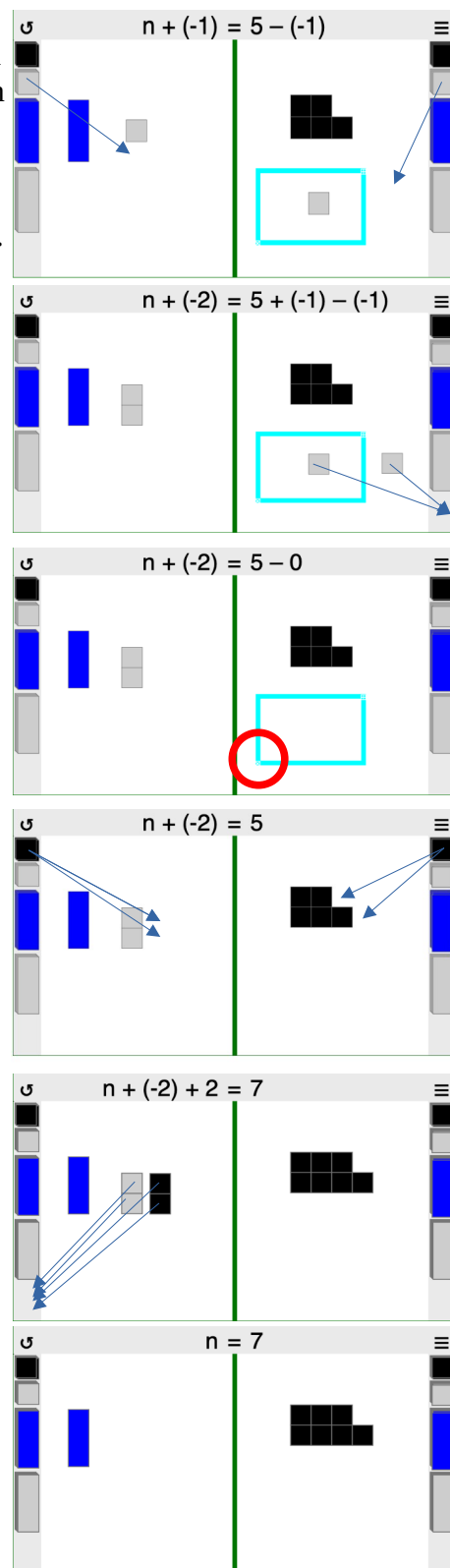
For example, here we add a negative unit to each side so that later we can remove the negative unit from the subtraction zone.

Now that there is a matching tile outside the subtraction zone, we can remove the tile in the subtraction zone and the matching tile.

To remove an empty Subtraction Zone, press the  in the lower left corner of it.

Now to remove the negative tiles on the left side, we add two positive tiles to each side.

Now we have created a zero pair on one side, we can remove it.



Dividing

If you have equal groups of objects on both sides you can 'divide' by moving the mouse in a line between the groups.

Click on the ☒ sign at the right end of the division lines to clear all the groups but one.

