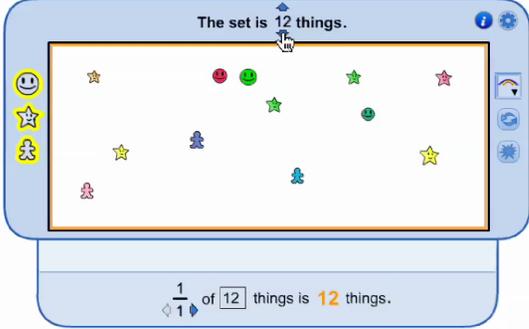
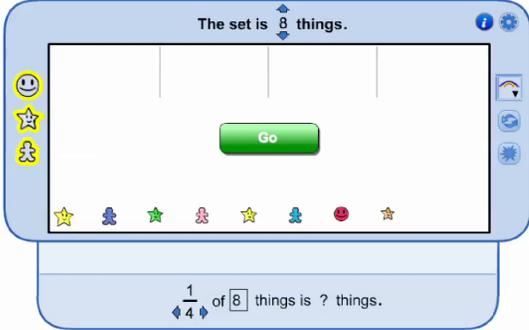
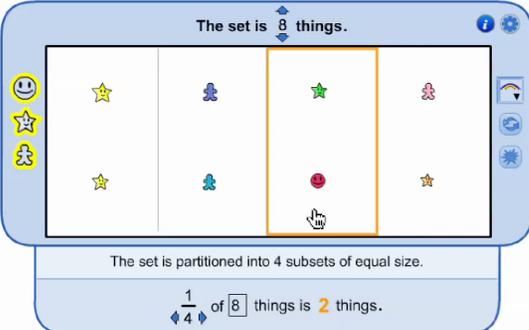
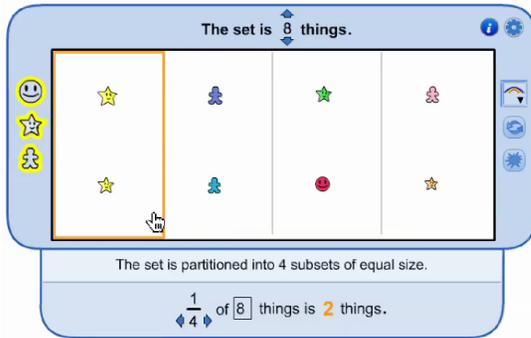


## Using the Partitioning Sets by Number Tool - How To Video Script

Related Screen Picture	Script
<p><b>Getting Started</b></p> 	<p>This video is about how to use the Partitioning Sets by Number tool.</p> <p>The inside white space starts with a set of 10 different things.</p> <p>The outside blue space has buttons to make changes.</p> <p>Click these arrows to increase ...</p> <p>or decrease the number of things in the whole set.</p>
<p><b>Getting Ready to Partition</b></p> 	<p>Get ready to explore partitioning this set by clicking these arrows.</p> <p>The tool is ready to find one fourth of a set of 8 things.</p> <p>Can these 8 things be partitioned into 4 subsets of equal size?</p> <p>Think, then when ready,click Go.</p>
<p><b>Select a Subset</b></p> 	<p>Select any subset.</p> <p>This subset has 2 things ...</p> <p>a star and a happy face.</p> <p>Click again to deselect the subset.</p>

### Explore $\frac{1}{4}$ of 8



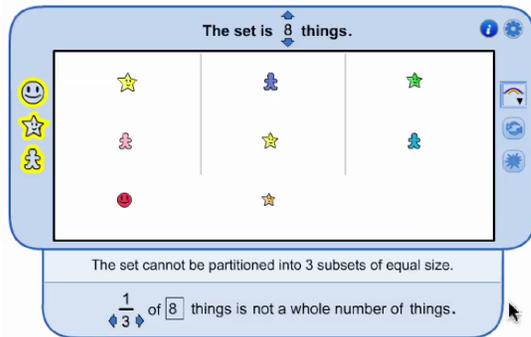
This subset has 2 stars.

Subsets might have different things but each subset has the same number of things.

The picture shows a set of 8 things equally partitioned into fourths, that is, four subsets of equal size.

The highlighted subset shows that  $\frac{1}{4}$  of 8 things is 2 things.

### Explore $\frac{1}{3}$ of 8



Now, let's explore this set some more.

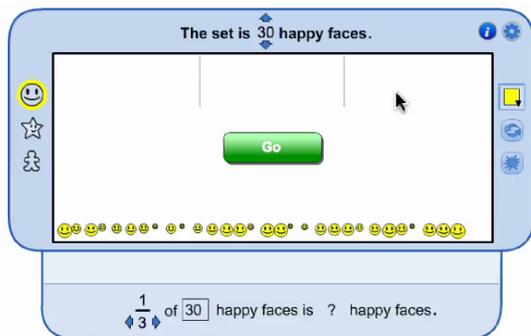
Change the number of partitions here.

Now, we are ready to explore whether a set of 8 things can be equally partitioned into 3 subsets of equal size.

Think, then when ready, click Go.

The picture shows that a set of 8 things cannot be equally partitioned into 3 subsets of equal size.

### Create a Different Set



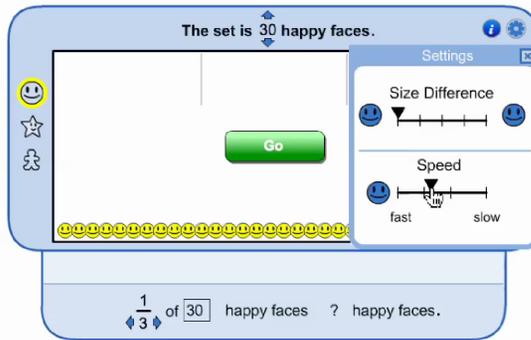
You can explore partitioning with different sets.

You can change the number of things in a set in 4 different ways... here, here, here, or here.

Change the type of things. Exclude stars. Exclude people.

And, pick a colour.

## Settings



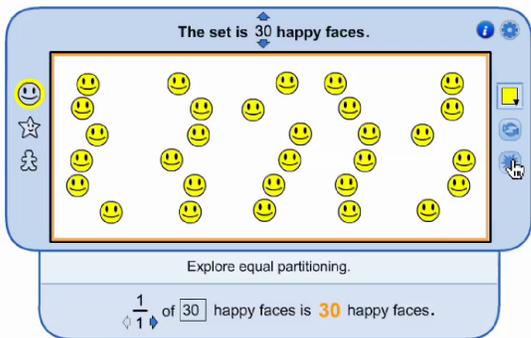
Change the settings.

Make all the faces the same size.

And, make the animations a bit slower.

Close the settings box.

## Scramble, Reset and Drag

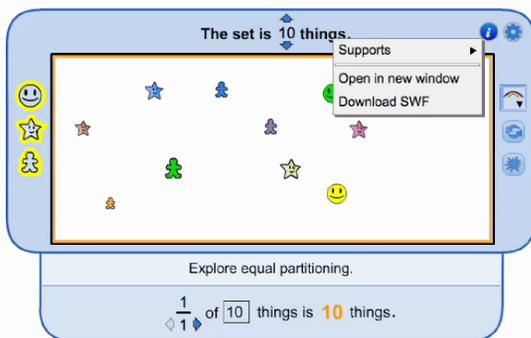


Now, click this scramble button to restart with your new set.

If you want to undo all the changes, click Reset.

When the whole set is in the white space like this, you can move one thing at a time. Click, drag, and drop.

## Information Button



And finally, go to the i button for more information or to download this tool.